

7 PROCEDURE FOR THE DEVELOPMENT OF RISK-CONSISTENT SPECTRA

7.1 Introduction

Within the general purpose of developing recommendations for earthquake ground motions is the specific goal of achieving consistency for different sites and site conditions. This raises the question of what is meant by "consistency," and over what range of sites and site conditions it is to be achieved. For the purposes of this project we mean by "consistency" that the ground motion recommendations result in facilities at different sites having about the same level of safety from earthquake-caused failures, no matter where there are located in the country. The achievement of consistency should be judged from highly seismic locations on the west coast of the US, to locations with the possibility of rare but large earthquakes on the east coast, to locations with low seismicity in the Midwest. The range of site conditions should span hard rock sites in the east, to soft rock sites in the west, to alluvium site conditions throughout the country that might reasonably be the foundation material for nuclear facilities (extremely soft soils being excluded).

It is a major effort to evaluate the seismic safety of an existing nuclear facility, and many studies have undertaken that task. It would be an even more daunting task to estimate the seismic safety of an unspecified facility whose specific features and redundancies have not yet been defined. For this reason we judge the seismic safety of a facility by the safety of its individual components, for which we have extensive experience from detailed seismic safety evaluations, and do not attempt to estimate the safety of an integrated facility as a whole.

Other parts of this project have derived ground motion spectral shapes and time histories for rock and soil sites, and have examined methods to scale ground motions to target spectra. Those results are to be used once the seismic hazard and a design spectrum are determined for a site, to obtain realistic spectral shapes for the controlling earthquakes and to derive time histories of motion for detailed analyses. The current recommendations (on risk- and hazard-consistent spectra) are to be used to determine the design spectra at a site, once the initial probabilistic seismic hazard results have been calculated.

Many factors affect seismic safety, of course. First is the level of seismic hazard, how frequently large earthquake ground motions might occur. Second is how that frequency of occurrence changes with ground motion amplitude, which is quantified as the "slope" of the hazard curves. This slope can depend on the natural period of a specific component as well as on the seismic environment. Presuming the hazard curves have been defined for rock conditions, which is the typical case, a third factor is how any local soils amplify or deamplify the ground motion, recognizing that this amplification (or deamplification) depends on the amplitude of the incoming rock motion. The fourth factor is the facilities components: how robust are they to seismic shaking and how certain (or uncertain) are we of that robustness?

The methods that follow account for the first, second and fourth factors, and lead to recommendations on deriving seismic design spectra that are consistent for a range of sites and seismic hazard conditions. While not all sites or conditions have been examined (it would be prohibitive in time and expense to do so), we are confident that the ranges of sites and conditions are

wide enough that our recommendations are solid. With respect to accounting for the effects of local soils, the results presented here are less conclusive and do point to the critical issues that need to be addressed, rather than to the resolution of those issues.

7.2 Methodology

7.2.1 Concepts and Goals for Seismic Risk Consistency Across Sites

The goal of achieving seismic risk consistency across sites is interpreted here as achieving the same levels of safety for the components of nuclear facilities to resist seismic shaking. Many studies of complete nuclear plants have been conducted in the US and overseas, but it would be difficult to interpret the results of those studies (even knowing the seismic design criteria) into a general recommendation for seismic components. Many components of plants have a seismic ruggedness that is well above that required by regulations, for various reasons, and interpreting the seismic safety of a plant as if all its components were designed to just meet the overall site seismic design criterion would be erroneous. Further, there is no target overall or seismic plant-level failure frequency that has been deemed acceptable by nuclear agencies. From these numerous studies of nuclear plant seismic safety has come a wealth of experience on individual component ruggedness to seismic shaking. Thus it more fruitful to examine the goal of seismic risk consistency on an individual component basis. What we can achieve is a recommendation on ground motion spectra that is robust on a relative basis from site to site, based on component responses. Thus we judge the degree of "seismic risk consistency" by evaluating the probability of failure of components for a range of sites and site conditions.

It is useful to first review the steps for specifying a required seismic capacity. This will introduce the nomenclature and clarify further discussions about design procedures and recommendations.

The development of design earthquakes and required capacities for components and equipment of nuclear power plants (NPP's) can be represented as three steps, as illustrated in Figure 7.1.

Step 1: Safe Shutdown Ground Motion. This step (illustrated in Figure 7.1 as 1A, 1B, and 1C) derives amplitudes of the Design Response Spectrum (DRS) in units of spectral acceleration (or its equivalent), either from a hazard curve (1A), from an attenuation equation for a given M and R (1B), or from a "standard" (or "site-specific") spectral shape (1C) anchored to a ground motion amplitude. The DRS is specified over a range of structural frequencies. (We deliberately use the term "DRS" here in place of "SSE" to emphasize that a *ground motion* is being specified from the hazard analysis, not an earthquake defined by a magnitude M and distance R . The dominant M and R may well be specified, but this would be information in support of a ground motion level.)

Step 2: Demand Analysis. This step translates the DRS ground motions into "demand" in terms of force on members, stress, etc., (step 2 in Figure 7.1) using for example dynamic structural analysis. In standard NPP design (as represented by ASCE [1986] 4-86 and USNRC Standard Review Plans) several factors contribute to conservatism in this step:

- Conservative damping values are used in estimating structural response.

- Multiple SSI analyses are performed and the envelope of these results is used, and
- any peaks in the response spectrum are broadened so that the structure at its natural frequency will be affected by those peaks.

These factors lead to a conservative estimate of demand for the given DRS. That is, when the Design Response Spectrum is specified at the 84% level (e.g. as illustrated in 1B or 1C in Figure 1), the calculated demand is also at about the 84% level, because of conservatisms in traditional demand calculations.

Step 3: Capacity Analysis. The required capacity of structural components is specified in terms of its fragility curve (illustrated as #3 of Figure 7.1). Here the fragility curve is a “composite” in the sense that it includes both randomness and uncertainty. As long as we are concerned only about mean or median risk numbers, we need not distinguish between randomness and uncertainty in the fragility curve. (This statement is true exactly for the mean and approximately for the median.) The High-Confidence of Low Probability of Failure (HCLPF) point on the fragility curve is a convenient point at which to specify the design capacity of a component. Traditionally, when randomness and uncertainty are segregated in component fragility analysis, the HCLPF corresponds to a 95% confidence (over uncertainty) of less than a 5% (over randomness) frequency of failure. When randomness and uncertainty are combined, this corresponds very closely to a 1% mean frequency of failure given the demand. Several points on the fragility curve of Figure 7.1 are identified: the HCLPF is indicated as the point at which there is a 1% frequency of failure for the given demand, CAP_{50} indicates the point at which there is 50% frequency of failure, and CAP_{10} indicates the point at which there is 10% frequency of failure. Here, “failure” is defined in terms of the performance level for that component, i.e. the component is affected to the extent that it cannot perform its intended function for the safety systems in which it participates.

Several terms are important. First, “seismic margin” applies to the product of conservatisms introduced in step 2 (for demand analysis) and in step 3 (capacity analysis). Also, herein β_R refers to the logarithmic standard deviation of response, and β_C to the logarithmic standard deviation of capacity. The combined logarithmic standard deviation β equals $\sqrt{\beta_R^2 + \beta_C^2}$, and this is the uncertainty measure used to characterize seismic fragility.

For typical codes (e.g. ASCE [1986] 4-86 and the USNRC Standard Review Plans) the design philosophy is to ensure that the calculated demand given the SSGM is at about the 84% level (this distribution being over uncertainties in response), so point 2 divided by point 2' in Figure 7.1 can be represented as $\exp(1.0 \beta_R)$, assuming a lognormal distribution. Also, typical design codes for civil structures and mechanical systems adopt several conservatisms to ensure a mean capacity well above the calculated demand, such as:

- Nominal capacities for members are chosen through the lowest data points,
- Strength reduction factors are used,
- Yield stresses are specified below average yield stress data,
- Load factors may be applied, and
- Ductility capacity in members above their yield strength may be present.

These conservatisms mean that, if CAP_{10} is the measure of capacity, the ratio of CAP_{10} /point 2 is typically 1.75 to 2.5. This ratio is illustrated with a value of 1.87 on Figure 7.1. For nuclear power plant design the factor of safety has typically been 1.25 to 1.5 (R.P. Kennedy, personal communication, 1997) on the HCLPF (point 3/point 2); this does not mean that nuclear plants have lower safety, just that the factor of safety is measured from a different point (the HCLPF vs CAP_{10}). Assuming a typical lognormal distribution for capacity (using β_C to represent logarithmic standard deviation), the ratio of CAP_{50} to the HCLPF is $\exp(2.32 \beta_C)$ because the HCLPF represents the 1% frequency of exceedence, by definition.

We understand a desire by the NRC to achieve a Factor of Safety of 1.67 from the calculated demand (point 2) to the HCLPF (point 3). Note that this does not, by itself, imply more stringent seismic criteria than what has been practiced in the past; other factors (in particular, the DRS) need to be specified to determine absolute seismic design levels. For a factor of safety of 1.67, the total seismic margin on capacity CAP_{50} (point 5/point 2) is

$$\begin{aligned} 1.67 \exp(1.0\beta_R + 2.32\beta_C) &\approx 1.67 \exp(2.32\sqrt{\beta_R^2 + \beta_C^2}) \\ &\approx 1.67 \exp(2.32\beta) \end{aligned} \quad (7.1)$$

The goal in developing risk-consistent spectra is to understand the relevant design codes and their implicit seismic margin, choose an appropriate DRS (perhaps scaled by some factor), and ensure that the resulting probability of component failure (represented by its mean or median) is acceptable. Factors that will influence the calculated probability of failure are:

1. The annual probability of exceedence that is chosen for the DRS, and whether this choice is a median or mean value (over uncertainties in seismic hazard)
2. The slope of the seismic hazard curve (annual probability of exceedence vs. ground motion)
3. The design seismic capacity (whether it is measured at the HCLPF, CAP_{10} , or some other value)
4. The uncertainty in response, β_R
5. The uncertainty in capacity, β_C .

With respect to item no. 1 above, we cannot make an independent recommendation, except to point out that if an acceptable failure frequency for components were adopted, a DRS could be designated (through its frequency of exceedence) to achieve that component failure frequency. With respect to mean vs. median hazard curves, there are advantages to using mean values, and these are reviewed below.

The slope of the hazard curve, item no. 2, can be taken into account through a very simple modification of the uniform hazard spectrum. This is demonstrated in Section 7.3.

The choice of where the seismic capacity is measured is not really a choice. Tradition has linked the HCLPF to the 1% frequency of failure level, and we are reluctant to recommend major changes to design codes and procedures to implement a new definition of seismic capacity, even though some advantages would accrue by doing so. Thus the recommendation will remain to use the HCLPF defined at 1% frequency of failure.

Items no. 4 and 5 above relate to uncertainties in facility response and component capacity under seismic shaking. These are not known before design, and it would be unworkable to require knowledge of a structure's or component's seismic response before it has been designed, in order to specify the seismic design requirement for it. Thus we pursue recommendations for a range of β factors, the range being consistent with past experience.

7.2.2 Factors Affecting Seismic Risk

Numerous factors affecting the evaluation of seismic risk, evaluated here as the probability of seismically induced failure of a component. This failure probability can be represented as:

$$P_F = \int_0^{\infty} H(a) \frac{dP_{F/a}}{da} da \quad (7.2)$$

where $H(a)$ is the hazard curve and $P_{F/a}$ is the probability of failure (the "fragility") given ground motion amplitude "a," which captures both response and capacity uncertainties (See Kennedy and Short, 1994, equation (5b) for further discussion.)

The integrand in equation (7.2) is represented in Figure 7.2, which is a re-drawing of the bottom illustration in Figure 7.1 with two changes. First, the component fragility is represented as a density function, not a cumulative function (this is $dP_{F/a}/da$ in equation (7.2)). Second, the abscissa of the plot has been translated back to ground motion amplitude units instead of demand units.

In words, equation (7.2) says that the total annual probability of failure equals the probability that the component fragility is "a," times the annual probability that "a" is exceeded, integrated over all values of "a." If we move the density function of component fragility to the right (increase its strength), P_F goes down. If we move it to the left, P_F goes up.

Several important effects of hazard curves and fragility curves on P_F have been investigated by Kennedy and Short (1994). These are illustrated here on separate figures.

The parameter β quantifies the uncertainty in the seismic fragility. For most equipment and components, β lies in the range 0.3 to 0.6. Figure 7.3 illustrates two seismic fragility distributions, C_1 with a small β and C_2 with a large β , both with the same CAP_{10} value. That is, the area under both the C_1 and C_2 curves below CAP_{10} is 10%. For DOE facilities, Kennedy and Short (1994) found that specifying the seismic fragility by CAP_{10} resulted in the P_F being insensitive to β . This means that the component with seismic fragility C_1 will have about the same failure probability P_F as the component with seismic fragility C_2 . This occurs, as illustrated in Figure 7.3, because over the important range

of amplitudes, sometimes $C_1 > C_2$ and sometimes $C_2 > C_1$, so that the total P_F is about the same. For other definitions of component capacity, e.g. the HCLPF, this insensitivity does not hold. That is, if the component capacity is defined at the HCLPF, P_F is sensitive to the β value of the component. This is illustrated in the next Section.

Another effect relates to the slope of the hazard curve. Figure 7.4 illustrates two hazard curves with different slopes, and these are quantified by K_H . K_H is the negative slope of the hazard curve on log-log scale; steeper curves have higher K_H values. Typical K_H values for U.S. plants range from 1.5 to 6. On the west coast K_H tends to be higher (steeper hazard curves) because plants are designed closer to the maximum magnitudes on faults and the hazard curve falls off faster with higher ground motions. For a specific site, K_H tends to be lower for low frequencies and higher for high frequencies.

The other parameter related to K_H that describes the hazard curve slope is A_R , and the two are related by

$$A_R = 10^{\frac{1}{K_H}} \quad \text{or} \quad K_H = \frac{1}{\log_{10} A_R} \quad (7.3)$$

A_R is the increase in ground motion corresponding to a factor of ten decrease in annual probability. As Figure 7.4 illustrates, $K_H=3.32$ corresponds to $A_R=2.0$ and $K_H=2.10$ corresponds to $A_R=3.0$.

Figure 7.5 compares two hazard curves with different slopes to a capacity curve. In this plot, the vertical axis is probability on a linear scale, so the hazard curves appear curved. If the hazard curves are equal at some annual probability (e.g. 10^{-4}) for a low-amplitude ground motion, the curve with the shallower slope (lower K_H , higher A_R) will cause a larger P_F . This is the case because, at all "a" values of interest, $H_2(a) > H_1(a)$.

This means that if we use the ground motion a associated with same annual probability of exceedence as the starting point for design, we must have a factor that makes the required capacity depend on the hazard curve slope, to achieve consistent P_F 's for all slopes. The alternative would be to assume a worst case (shallow) hazard curve slope; then the design for components at a site with a steeper hazard curve will be overly conservative. Or, one could specify a very high DRS and no conservatism in the response/capacity analysis, but this would significantly change current design practice and would not be easily accepted.

The quantitative effects of these sensitivities to β and slope are examined in Section 7.3 using actual sites and hazard curves from across the US.

7.2.3 Risk Equation

With some realistic assumptions on the shape of the hazard curve and the fragility curve, it is possible to derive a simple expression for P_F . This derivation has been done elsewhere (e.g. Sewell et al, 1990; 1996; Kennedy and Short, 1994), and is repeated here for completeness.

First we assume that the hazard curve $H(a)$ is linear on log-log scale, i.e.

$$H(a) = k a^{-K_H} \quad (7.4)$$

Actual hazard curves tend to get steeper at higher amplitudes, but over the important range of amplitudes for P_F calculations they can be approximated as linear on log-log scale.

Second we assume that component fragilities are lognormally distributed. This means that

$$P_{F/a} = \int_0^a \frac{1}{y\sqrt{2\pi}\beta} \exp\left\{-\frac{(\ln y - \overline{\ln y})^2}{2\beta^2}\right\} dy \quad (7.5)$$

where $\overline{\ln y} = \ln CAP_{50}$.

Substituting equations (7.4) and (7.5) into (7.2) gives

$$P_F = \int_0^\infty k a^{-K_H} \frac{1}{a\sqrt{2\pi}\beta} \exp\left\{-\frac{(\ln a - \overline{\ln a})^2}{2\beta^2}\right\} da \quad (7.6)$$

Transforming the integration variable a to variable $x = \ln a$ gives

$$P_F = \frac{k}{\sqrt{2\pi}\beta} \int_{-\infty}^{\infty} \exp\{-K_H x\} \exp\left\{-\frac{(x - \overline{\ln a})^2}{2\beta^2}\right\} dx \quad (7.7)$$

The integrand above is in the form

$$\exp\{cx\} Z(x) \quad (7.8)$$

where c is a constant and $Z(x)$ is the normal density function. The definite integral equation (7.7) can be solved by expansion or by published methods of integrating functions of normal probability distribution (e.g. Owens, 1980), yielding

$$P_F = k CAP_{50}^{-K_H} \exp\left\{\frac{1}{2}(K_H\beta)^2\right\} \quad (7.9)$$

This form, designated the "risk equation," was first derived by G. Toro during discussions with C.A. Cornell and published in Sewell et al. (1990, 1996). Expressing the hazard $H(a')$ at a ground motion level a' corresponding to the uniform hazard spectrum (UHS), using equation (7.4) gives:

$$H(a') = k(a')^{-K_H} \quad (7.10)$$

Solving for k and substituting into equation (7.9) gives:

$$P_F = H(a')^{K_H} CAP_{50}^{-K_H} \exp\left\{\frac{1}{2}(K_H\beta)^2\right\} \quad (7.11)$$

We can now derive a probability ratio R_p as the probability $H(a')$ that a' will be exceeded, divided by the probability of failure P_F :

$$R_p = H(a')/P_F \quad (7.12)$$

This ratio is usually much greater than unity because P_F is much less than the hazard at a' . R_p can be expressed as:

$$R_p = \left(\frac{CAP_{50}}{a'}\right)^{K_H} \exp\left\{-\frac{1}{2}(K_H\beta)^2\right\} \quad (7.13)$$

Instead of using CAP_{50} to designate capacity, we can use the HCLPF, where for a lognormal distribution the two are related by

$$HCLPF = CAP_{50} \exp\{-x_p\beta\} \quad (7.14)$$

where x_p is the number of standard deviates corresponding to the frequency of failure at the HCLPF, which is 2.326 for 1% frequency of failure. Also, we can express the required HCLPF in terms of a' times a factor of safety F_R :

$$HCLPF = a' \cdot F_R \quad (7.15)$$

Solving these last two equations for CAP_{50} and a' , and substituting into equation (7.13) gives:

$$R_p = F_R^{K_H} \exp\left\{x_p K_H \beta - \frac{1}{2}(K_H \beta)^2\right\} \quad (7.16)$$

This gives a simple means to calculate $P_F = H(a') / R_p$, given that the hazard associated with the DRS at (a') is known. The probability ratio R_p depends on the factor of safety F_R , the hazard curve slope K_H , and β of the fragility function; for the HCLPF defined at the 1% frequency of failure point, $x_p = 2.326$ as explained above.

Equation (7.16) also gives an easy way to compute the effect of hazard curve slope and fragility β on P_F for a specified hazard corresponding to a selected Uniform Hazard Spectrum (UHS). Stated another way, if we pick a UHS at each site with the same annual probability of exceedence, and define the required seismic capacity in terms of a HCLPF using equation (7.15), then equation (7.16) allows us to examine the *risk consistency* across sites for different hazard curve slopes K_H and fragility uncertainties β . The use of equation (7.16) in this way is demonstrated in Section 7.3.

A couple of points about the *distributions* of $H(a')$ and P_F are important. $H(a')$ is uncertain because of lack of knowledge in the earth sciences about earthquake sources, ground motions, etc. This uncertainty has been quantified by EPRI and LLNL at CEUS plant sites and by utilities at several WUS plant sites. If we use the mean of this distribution we will achieve a mean P_F for any set of design rules. The mean has the advantage that we can compute (and control) the mean P_F for multiple plants. That is, we have n plants and an average acceptable probability of component failure at these plants, we can achieve that by specifying a mean P_F at each plant. The disadvantage is that the mean is sensitive to low probability, high consequence assumptions in the seismic hazard analysis and is not as stable (from study to study) as the median.

If we use the *median* $H(a')$ we will achieve an *approximate median* P_F . The median has the advantage that it is more stable than the mean, but a target mean or median P_F for n plants cannot readily be translated to a required median P_F at each plant. So use of the median $H(a')$ leads to ill-constrained limits on P_F over multiple plants. For this reason the use of the mean $H(a)$ curve is recommended, although we show example results for both the mean and median in Section 7.3.

A final point is that R_p can be controlled by “deterministic acceptance criteria” associated with design codes and guides, and by a “scale factor” that moves the capacity up or down as a function of the hazard curve slope K_H , the desired P_F , or the desired R_p for a given $H(a)$. This scale factor is conveniently thought of as a scaling of the UHS to specify a DRS. The total factor of safety F_R , defined in terms of point 1 on Figure 7.1 relative to the HCLPF, would then be:

$$F_R = \alpha SF \quad (7.17)$$

where α is the conservatism achieved by design procedures (e.g. 1.67 on the HCLPF) and SF is the scale factor. The new design spectrum is then the UHS scaled by SF . To avoid confusion in terminology we label this scaled spectrum the “uniform reliability spectrum” (URS). We examine one useful form of SF in Section 7.3.

7.2.4 Accounting for Soil Amplification

We have assumed in the derivations of the previous sections that hazard curves are available for a site at critical natural periods, so that the slope of the hazard curves can be determined. For sites located on rock the hazard curve will be determined by a probabilistic seismic hazard analysis (PSHA) for that site’s rock conditions.

For sites with uniform soil conditions across the site, it may be possible to perform the PSHA using site-specific soil attenuation equations. In this case the soil PSHA results can be used directly. For other sites with varying soil conditions, or where some structures will be founded on soil and some on rock, it is likely that the PSHA will be performed for rock conditions, and that a translation to hazard curves at the soil surface will be necessary. In fact, multiple translations on a building-specific basis may be required if soil conditions vary from building to building.

The method of performing this translation to account for soil amplifications is important. Several factors complicate the analysis. First, a comprehensive PSHA includes uncertainties in rock hazard curves, and these must be translated into uncertainties in soil hazard curves. Second, there are always uncertainties in soil dynamic properties (e.g. shear wave velocity, stiffness, and damping characteristics), and these must be included. Third, soil response at high amplitudes will generally be non-linear. This is why the mean rock hazard curves cannot be simply translated to mean soil hazard curves; the distribution of hazard must be examined explicitly.

Section 6 describes several methods of translating rock hazard curves to soil hazard curves, incorporating the above effects. The methods are demonstrated for a range of site conditions. Final recommendations on simple ways of accounting for soil effects, so that the UHS on soil can easily be derived from a PSHA on rock, await further verification of accuracy using a wider range of rock attenuation equation assumptions..

7.3 Examples of Risk-consistent Spectral Amplitudes

As recommended here, risk consistency will be achieved by modifying design spectral amplitudes at two frequencies (10 and 1 Hz) and scaling ground motion spectral shapes (from the appropriate M and R) to those modified amplitudes. The scaling of spectral amplitudes will be done at all frequencies to generate a uniform reliability spectrum (URS) for comparison purposes. As an example, eleven sites are examined in this subsection, using 10 and 1 Hz spectral amplitudes and PGA, to show the risk consistency achieved for those parameters.

7.3.1 Example Sites

With the derivation of probability ratio R_p in Section 7.2, we can examine the risk-consistency of spectra for a range of sites with different hazard curve slopes and a range of fragility curve β 's. The hazard curve slopes K_H will in general vary from site to site and across natural frequencies at any single site.

To test several methods for uniform reliability spectra, we examined eleven sites and three ground motion measures at each site, as follows:

- | | |
|-----------------------------|---------------------------|
| 1. Arkansas plant, PGA | 6. Browns Ferry, SA 10 Hz |
| 2. Arkansas plant, SA 1Hz | 7. Davis Besse, PGA |
| 3. Arkansas plant, SA 10 Hz | 8. Davis Besse, SA 1 Hz |
| 4. Browns Ferry, PGA | 9. Davis Besse, SA 10 Hz |
| 5. Browns Ferry, SA 1 Hz | 10. Maine Yankee, PGA |

- | | |
|------------------------------|--------------------------|
| 11. Maine Yankee, SA 1 Hz | 23. Vogtle, SA 1 Hz |
| 12. Maine Yankee, SA 10 Hz | 24. Vogtle, SA 10 Hz |
| 13. Seabrook, PGA | 25. Zion, PGA |
| 14. Seabrook, SA 1 Hz | 26. Zion, SA 1 Hz |
| 15. Seabrook, SA 10 Hz | 27. Zion, SA 10 Hz |
| 16. Shearon Harris, PGA | 28. California, PGA |
| 17. Shearon Harris, SA 1 Hz | 29. California, SA 1 Hz |
| 18. Shearon Harris, SA 10 Hz | 30. California, SA 10 Hz |
| 19. Susquehanna, PGA | 31. Washington, PGA |
| 20. Susquehanna, SA 1 Hz | 32. Washington, SA 1 Hz |
| 21. Susquehanna, SA 10 Hz | 33. Washington, SA 10 Hz |
| 22. Vogtle, PGA | |

For the first 27 sets of results we used the LLNL hazard curves calculated for the USNRC (Sobel, 1994). For the "California" site, we calculated hazard at a site located near Santa Maria, California (120.5° W, 35.0° N), which has high frequencies dominated by nearby faults and long periods dominated by the more distant San Andreas fault. (A repeat of the 1857 earthquake dominates the long period hazard at this site.) For ground motion estimation the attenuation equation of Abrahamson and Silva (1997) was selected.

The last site examined was in Washington, located at 121°W and 46°N. This is in south-central Washington and also has high frequencies dominated by local earthquakes and low frequencies dominated by a large earthquake. In this case a large subduction zone earthquake controls the long-period hazard. We model this event using the assumptions of the US Geological Survey for the national seismic hazard maps. That is, an earthquake of $M \sim 9$ occurs in the subduction zone with rate 1/500 per year (credibility 1/3), or earthquakes of $M \sim 8$ to 9 occur with rate 1/110 per year (credibility 2/3). For both the California and Washington sites we model local earthquakes with the US Geological Survey gridded seismicity, as well as local faults for the California site.

The hazard curves for the eleven sites are compared in Figures 7.6, 7.7 and 7.8 for PGA, SA at 10 Hz, and SA at 1 Hz, respectively. The upper plot in each figure shows the raw hazard curves, the lower plot normalizes each curve by dividing the acceleration values by the acceleration at 10^{-4} annual probability. This shows that the site hazard curves encompass a range of slopes as well as amplitudes.

Prior to addressing issues of risk consistency, it is useful to examine graphically the details of a calculation of P_F . Figures 7.9 and 7.10 show the contributions to P_F by PGA level, where equation (7.2) has been used to evaluate P_F numerically. This calculation is for the Maine Yankee PGA hazard curve (taken from the LLNL study), shown at the top in both figures. The center plot in each figure shows a fragility curve, for $\beta = 0.3$ in Figure 7.9 and $\beta = 0.6$ in Figure 7.10. The bottom plot in each figure shows the contribution to P_F as a function of ground motion level. For both figures the HCLPF was arbitrarily chosen to be 0.375 g.

The β values of 0.3 and 0.6 were chosen to span the range of values observed for typical nuclear components and equipment (see Kennedy and Short, 1994). The observation from Figures 7.9 and

7.10 is that contributions to P_F come from a range of ground motion levels, from the HCLPF to two or three times the HCLPF.

As a general rule the main contributions come from ground motions at the HCLPF level, to ground motions associated with 0.1 times the hazard at the HCLPF. In Figures 7.9 and 7.10 these are ground motions with 10^{-4} to 10^{-5} annual frequency of exceedence. This rule of thumb was used to develop procedures described in subsequent sections, to estimate risks for a rate of sites and hazard characteristics.

7.3.2 Scaling Factor for Hazard Curve Slopes

As described in Section 7.2, it is convenient to adopt a scale factor SF , to scale the UHS to account for the site-specific (and natural period-specific) slope of the hazard curve. R.P. Kennedy (personal communication, 1997) has suggested the following scale factor:

$$SF = \max\{0.7, 0.35 A_R^{1.2}\} \quad (7.18)$$

which was derived by back-figuring the scale factor that would give an approximately constant value of RP (equation 7.16) for a given value of α and range of β .

Recall that as A_R increases, the hazard curves become more shallow. Equation (7.18) indicates that for shallow hazard curves, SF increases, i.e. the design values become higher. With this definition, the URS can be thought of as:

$$URS = UHS \times SF \quad (7.19)$$

i.e. the URS is the UHS “corrected” for the slope of the hazard curve. For $A_R = 2.40$ (which corresponds to slope $K_H = 2.63$), $SF = 1$, i.e. the URS equals the UHS.

Another way to look at the design is through the total factor of safety F_R (see equation (7.17)). If the amount of conservatism in design codes and guides (sometimes referred to as the “deterministic acceptance criterion”) is 1.67, then the total factor of safety F_R is:

$$F_R = 1.67 SF \quad (7.20)$$

The advantage of using a slope-dependent scale factor SF as defined in equation (7.18) is demonstrated in the next section.

It is useful to demonstrate the effect of SF on the UHS. Figure 7-11 shows the 10^{-4} UHS for the Columbia site described in Section 6, compared to the URS calculated by scaling the UHS at each frequency by SF . For the Columbia site, $SF > 1.0$ at high frequencies and < 1.0 at low frequencies. This low frequency result comes from the rapid fall-off of hazard between 10^{-4} and 10^{-5} (see Figure 6-45) from the Charleston fault. A site located in a region where the local zone dominates the low frequencies has a shallower hazard curve (see the “Local Background” curve in Figure 6-45). A more

typical case for the CEUS is shown in Figure 7-12, which was calculated for the Columbia site using only the hazard from the local background source. In this case the $URS > UHS$ at all frequencies. For the Mojave site, the hazard curve falls off steeply at all frequencies, so the $URS < UHS$ (see Figure 7-13). This is not surprising given the high rate of occurrence of earthquakes in the region.

7.3.3 Results for Example Sites

Calculations were made of the probability ratio R_p for the 33 site-parameter combinations listed in Section 7.3.1. This is an appropriate parameter to use because, if we start with the same hazard level $H(a')$ at all sites and all natural periods, and achieve a consistent R_p with our procedure, we will achieve a consistent probability of failure P_F .

With this background, Figure 7-14 shows R_p values for the 33 site-parameter combinations, calculated using the *mean* hazard curve for each site. For this plot R_p was calculated from the risk equation (eq. 7.16). The top plot in Figure 7-14 shows R_p when the design response spectrum (DRS) is taken to be *equal* to the UHS at the natural period of the parameter; the bottom plot shows R_p when the DRS is taken to be the $URS = UHS \times SF$, as in equation (7.19). The scale factor SF improves the consistency across sites and across parameters; results without SF vary from about 6 to 130 (a factor exceeding 20), but with SF they vary from about 15 to 45 (a factor of 3). This remaining factor of 3 is the effect of β . It would be inappropriate to define the URS on the basis of component response and capacity uncertainty. Options for choosing $H(a')$ and P_F for a range of β values are reviewed in Section 7.3.4.

Figure 7-15 shows how accurate the risk equation is, for the two definitions of DRS. An exact P_F was obtained by numerical convolution of the hazard curve and fragility curve, and the figures show the ratio of approximate P_F (from the risk equation) to exact P_F (by numerical convolution). A ratio of 1.0 would indicate perfect accuracy in the risk equation. For $DRS=UHS$ the risk equation is generally accurate (ratios of 1.0 to 1.3, with one exception for PGA at the California site); for the $DRS = URS = UHS \times SF$ the results are slightly less accurate (ratios of 1.0 to 1.38). Note that ratios > 1 are "conservative," i.e. the risk equation overestimates P_F . What this means is that, if we plot the "true" R_p (calculated from the numerical convolution), the results are not quite as consistent as shown in Figure 7-14 (bottom), which was prepared with the risk equation. This is shown in Figure 7-16 for the two definitions of the DRS. Values in Figure 7-16 (bottom) range from about 15 (for $\beta=0.3$) to 60 (for $\beta=0.6$). This is still more consistent than for the $DRS = UHS$, where the values range from 7 to 160 (Figure 7-16 [top]), a factor > 20 .

Figures 7-14 and 7-15 were prepared using the risk equation with the slope of the hazard curve defined from 10^{-4} to 10^{-5} hazard. Results were checked using the slope at other points on the hazard curve and were not as consistent as this slope. Therefore the slope from the target UHS to an annual probability of 0.1 times that at the target UHS is recommended for use in determining the slope-dependent scale factor SF .

All of the above results were calculated with *mean* hazard curves, so they correspond to *mean* P_F 's. Figures 7-17 and 7-18 show results (P_F values, and ratios of exact/approximate P_F) using the *median* hazard curves at each site. Because we are using a fragility curve that combines epistemic and

aleatory uncertainty, and the fractile hazard always monotonically increase in annual frequency at any ground motion, the median hazard curve gives the median P_F . [Correctly stated, this is actually an estimate of the “median (over hazard epistemic uncertainty) of the mean (over fragility epistemic uncertainty) P_F .”] But because the hazard epistemic uncertainty dominates, this is an accurate estimate of the median P_F . For these plots the UHS was taken to be the 10^{-5} ground motion from the median hazard curve, and the slope was calculated from 10^{-5} to 10^{-6} . Also, results are not shown for the California and Washington sites, as we did not extensively model uncertainties and generate a broad distribution of hazards at these sites to calculate a median.

Figure 7-17 (bottom) shows that selecting the $DRS = URS = UHS \times SF$ does about as well as for the mean hazard curve, but selecting the $DRS = UHS$ does not (see Figure 7-17 [top]). This is primarily a result of inaccuracy in the risk equation - see Figure 7-18 (top).

The conclusion from these comparisons is that the scale factor SF should be used to factor up the UHS to a URS, and the slope for the scale factor should be determined from the hazard level at the UHS to one-tenth that hazard level. In the examples above, the hazard level chosen was 10^{-4} and the slopes were determined from 10^{-4} to 10^{-5} .

A second conclusion is that the risk equation (eq. 7.16) accurately estimates R_p , the probability ratio between hazard and risk. It is not perfectly accurate because the hazard curves are not perfectly linear (in log-log space). But it can be used to quickly and accurately determine the hazard-to-risk ratio, for decision purposes as described in the next section.

7.3.4 Alternative Representations

Having demonstrated a method of achieving consistent R_p values across all sites and parameters for a given component fragility β , it is useful to review the alternatives available to specify seismic design. Ultimately the seismic ground motion criterion will be specified by a ground motion corresponding to a hazard level $H(a')$ determined at a specified annual probability of exceedence, by a scaling factor SF, and by a deterministic acceptance criterion α . These will lead to an implied probability of failure P_F . The parameters $H(a')$, SF, and α can be chosen in many ways, depending on the ultimate objective. However, it is our understanding that a value of $\alpha = 1.67$ is desired by the USNRC, and the previous section makes it clear that $SF = \max(0.7, A_R^{1.2})$ is our recommendation for the scaling factor.

One option is to specify $H(a')$ to be consistent with previous design levels. Regulatory Guide 1.165, for example, concludes that the median of the median hazard level for seismic design at 29 plants designed according to Regulatory Guide 1.60 is 10^{-5} per year. That is, half of the plants had a seismic design with a median hazard above this value, half had a design below this level. This conclusion could also be extended to the mean hazard, which would indicate a value of about 10^{-4} per year. Given these hazard levels, and given the above choices of α and SF, the associated P_F could be calculated.

An attractive alternative would be to specify an acceptable P_F , and then back-figure (using α and SF) the associated $H(a')$ required to achieve this P_F . This would have the advantage of allowing P_F for

seismic failures to be made consistent with other failures, for example, to ensure that seismic criteria are not overly conservative or unconservative with respect to other challenges to plant safety.

Recommending a method to select $H(a')$ or P_F is beyond the scope of the current project. However $H(a')$ and P_F are chosen, several other related issues need to be addressed as a part of the same decision process.

First is the choice of using the mean vs. median hazard curves. Advantages of using the mean hazard curves have been made above: a target mean probability of failure for components over n plants can be achieved by specifying a mean P_F at each plant, and this can be translated to a mean hazard curve. A target *median* probability of failure cannot be achieved by specifying a median P_F at each plant. On the other side, the calculated median hazard has been more consistent from study to study than the mean, although with communication and feedback this will probably not be the case for future studies. On balance we recommend that the mean P_F be used to derive requirements for a mean $H(a')$, to be used for design.

Second is the choice of which β value to use in calibrating the method. It would be less workable to specify the DRS to be dependent on the characteristics of individual components. Thus in specifying a design procedure (presuming the relationship between $H(a')$ and P_F is made explicit), a regulatory agency must decide whether to use an average β to pick $H(a')$ for a given P_F , or a worst-case β (i.e. a high value). Note that Kennedy and Short (1994) found that specifying the HCLPF in terms of the 10% frequency of failure point removed this sensitivity to β , but we do not recommend this redefinition of HCLPF — this would be too radical a change for designers to accept and adopt. Stated another way, if the $H(a')$ value is selected a priori, then a regulatory agency must decide whether the P_F for the *average* component (with an average β) is acceptable, or whether the P_F implied by the worst component (with the highest β) is acceptable.

Overall, our recommendation is that an average β be used, such as 0.45. This choice would result in less than a factor of 1.5 variation in P_F for a given $H(a')$ as a result of β -values different from a central value — see Figures 7-14 and 7-16. A variation of 1.5 is small, given other variabilities, particularly if a conservative α value of 1.67 is specified. The use of an average β value will avoid the compounding of additional conservatism.

7.4 Summary

This section has demonstrated a method to scale UHS at a site to achieve approximately risk-consistent seismic design spectra (herein called “design response spectrum,” or DRS). The DRS is risk-consistent for sites and natural frequencies with a range of slopes on hazard curves, and is the recommended spectrum to use for scaling time histories for dynamic analysis. The consistency of this method has been demonstrated at eleven sites with different characteristics of seismic hazard across the US.

Several issues remain before a DRS method can be implemented. First, the annual frequency associated with the target UHS must be chosen, along with a selection of the mean or median UHS. Actually a better choice would be to select an acceptable seismically-induced mean annual frequency

of failure for components, and back-figure the mean UHS that will give this mean frequency. A second issue is whether an average or conservative β is used to model components. We recommend an average β of 0.45, so that a *mean* frequency of component failure is achieved, rather than a conservative value. This avoids undesirable compounding of conservatism.

With these issues resolved, the DRS can be determined from a probabilistic seismic hazard analysis at a site. The advantage will be more consistent seismic designs across the frequency range and across the US.

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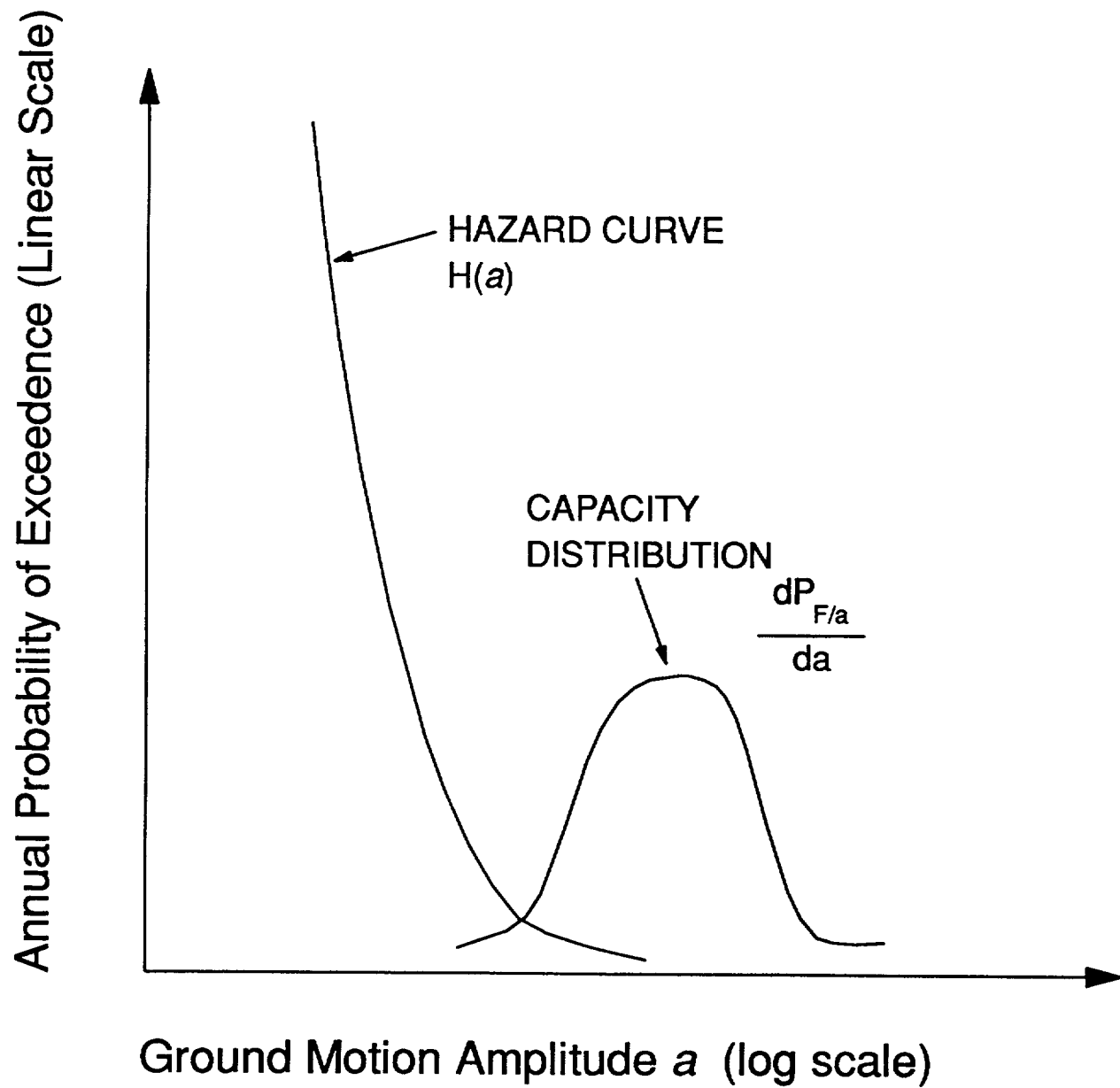


Figure 7-2. Graphical representation of curves for failure calculation.

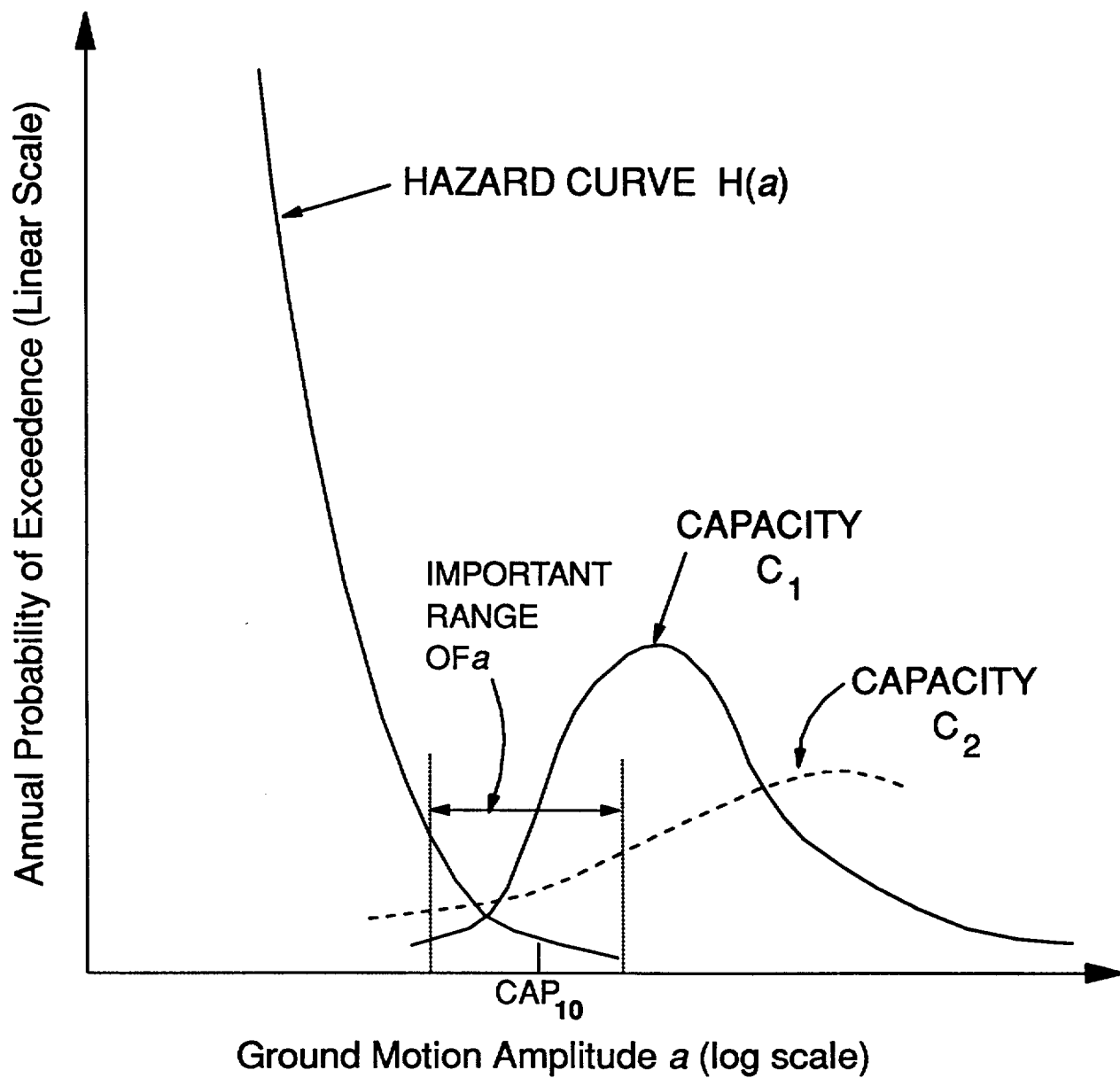


Figure 7-3. Alternative capacity distribution with same CAP_{10} .

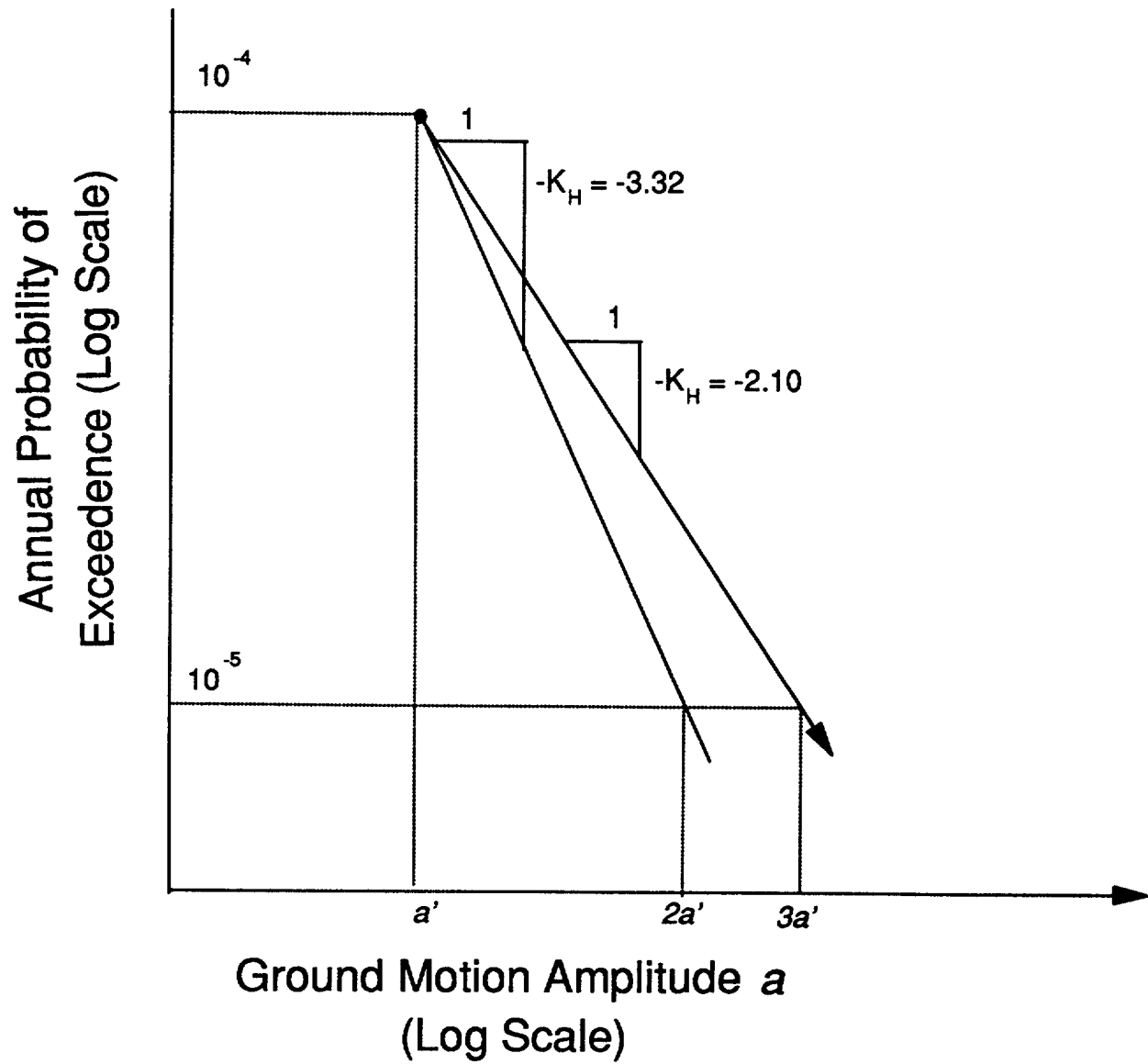


Figure 7-4. Hazard curve with different slopes.

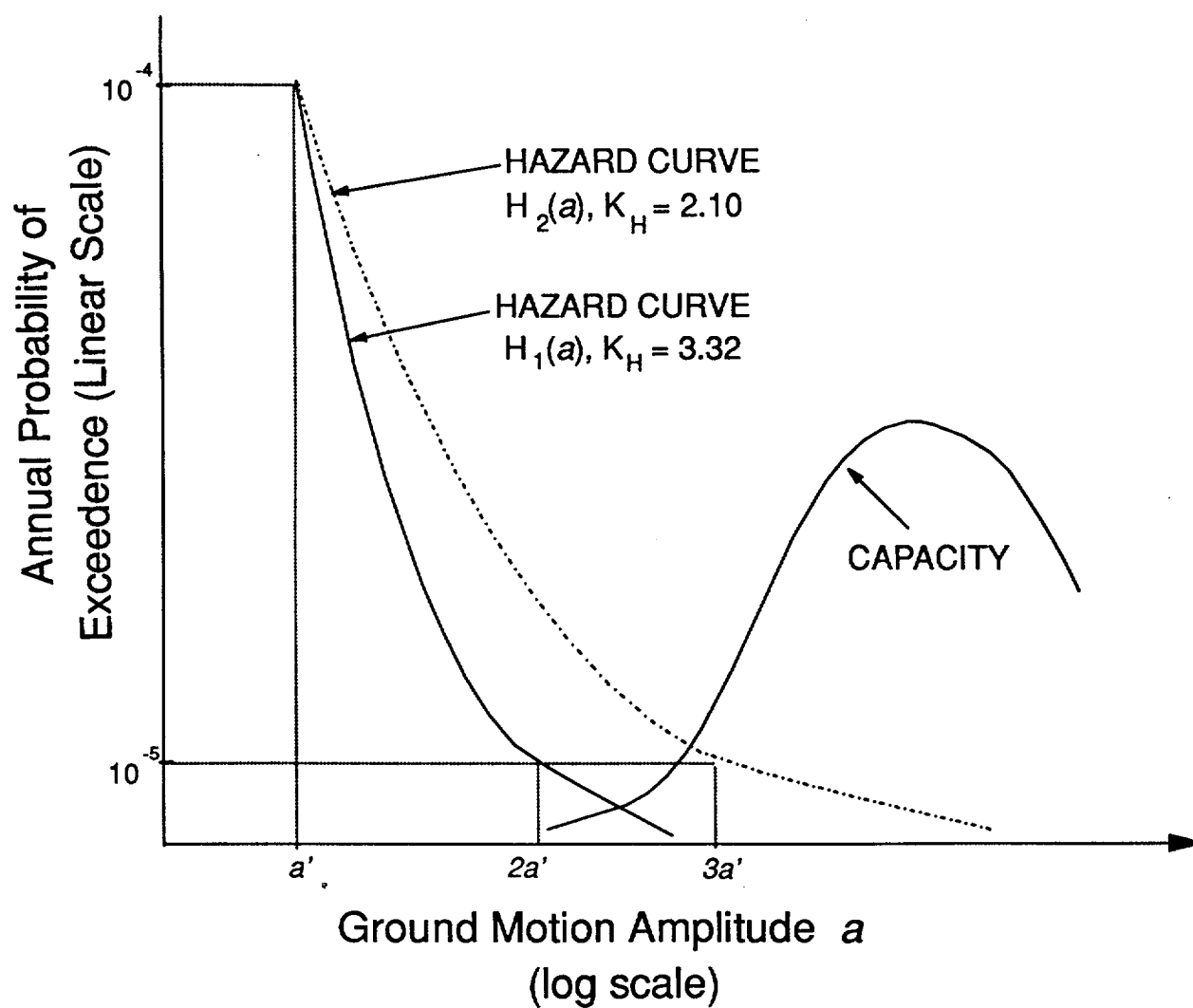


Figure 7-5. Comparison of hazard curves with different slopes to capacity curve.

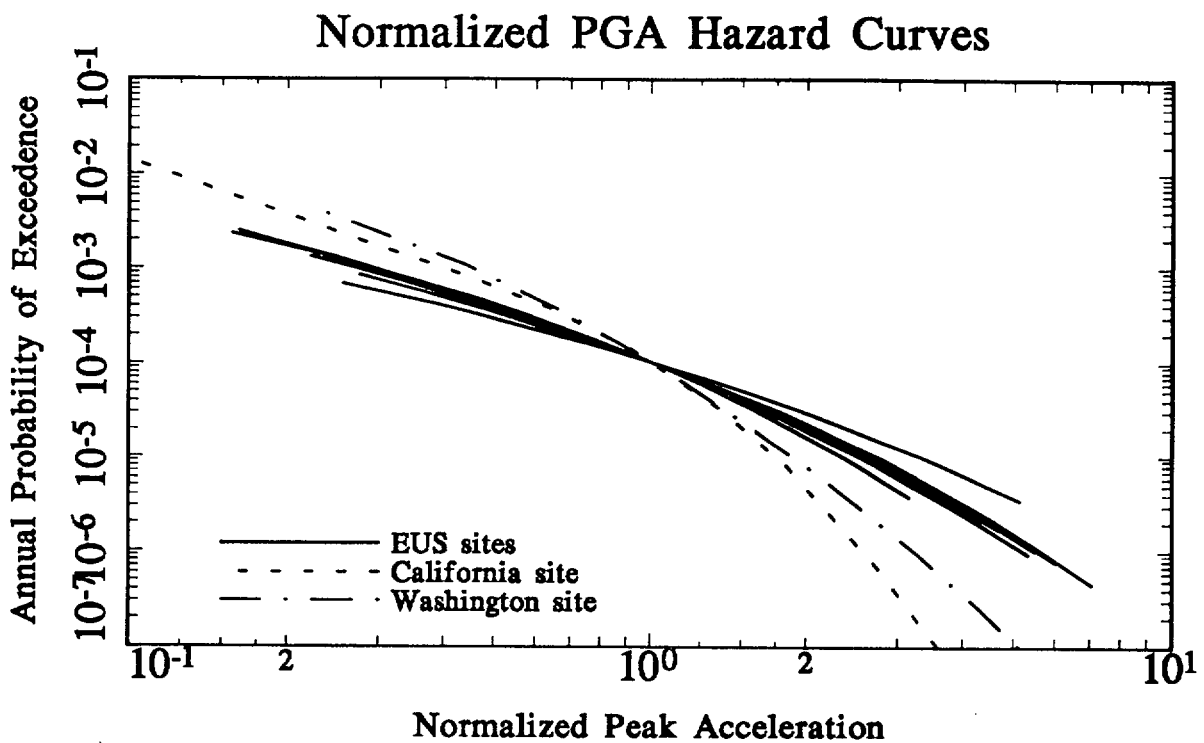
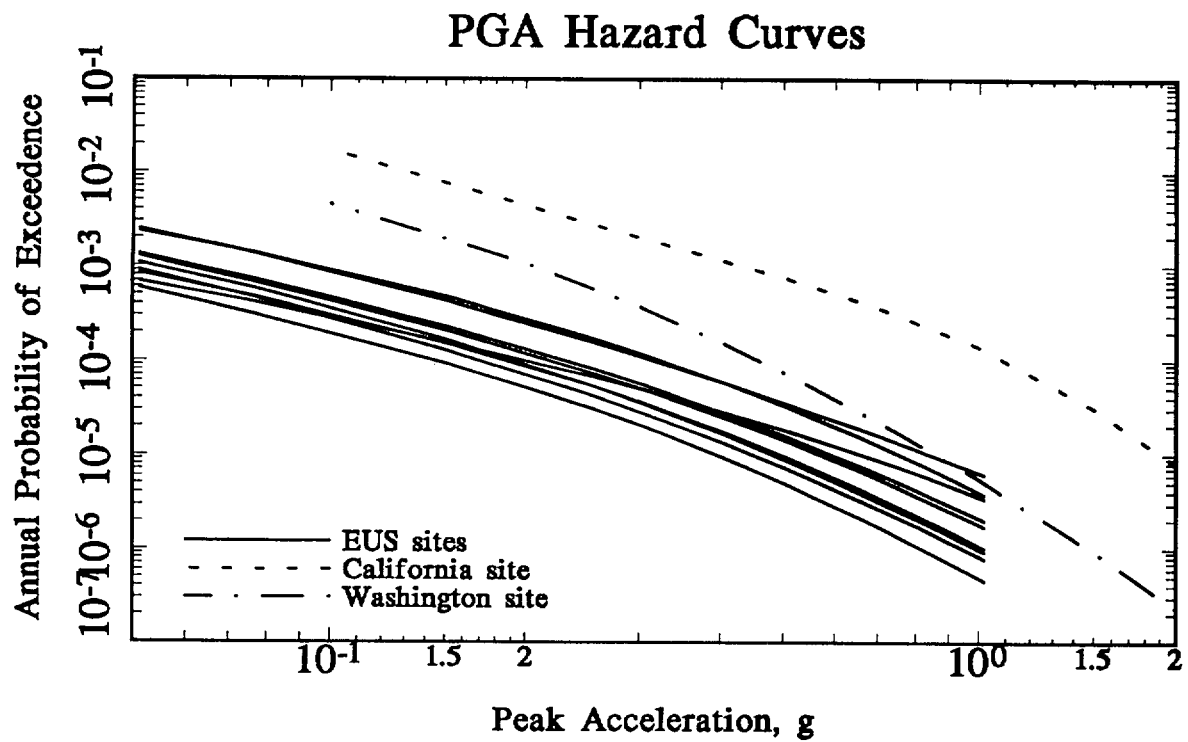


Figure 7-6. PGA hazard curves for the eleven test sites: (top) as calculated, (bottom) normalized by the acceleration value corresponding to 10^{-4} annual probability.

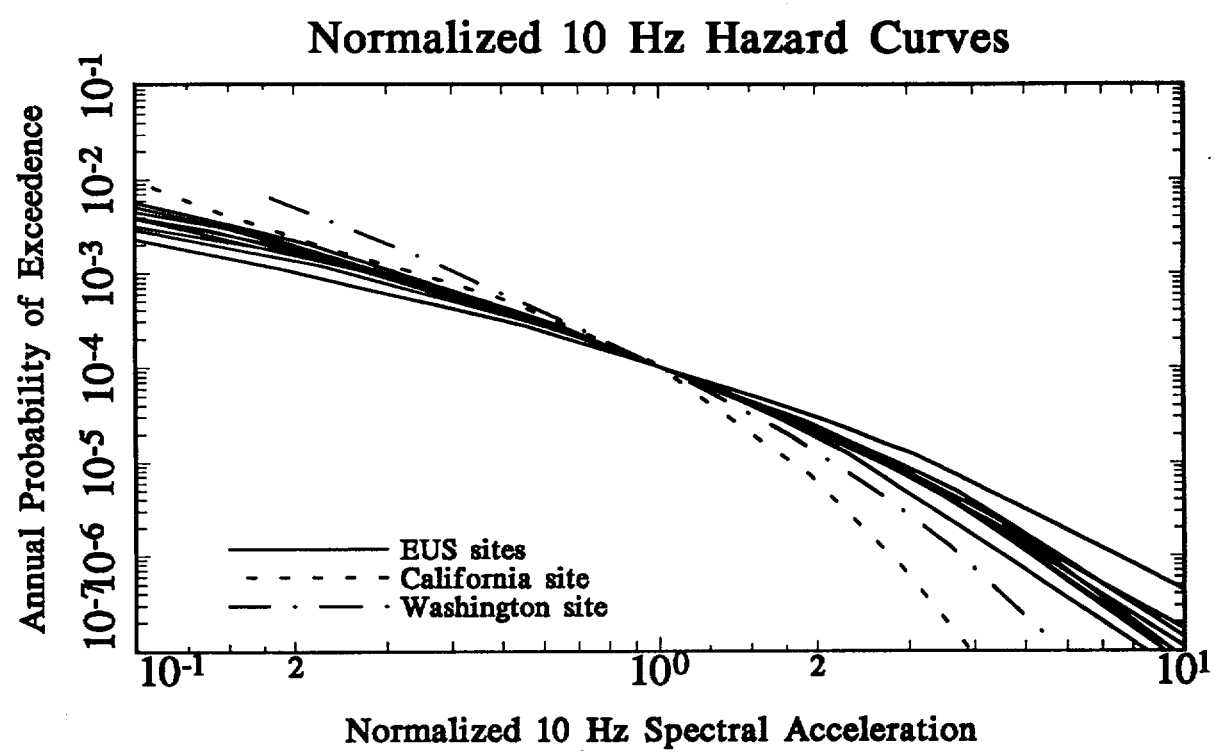
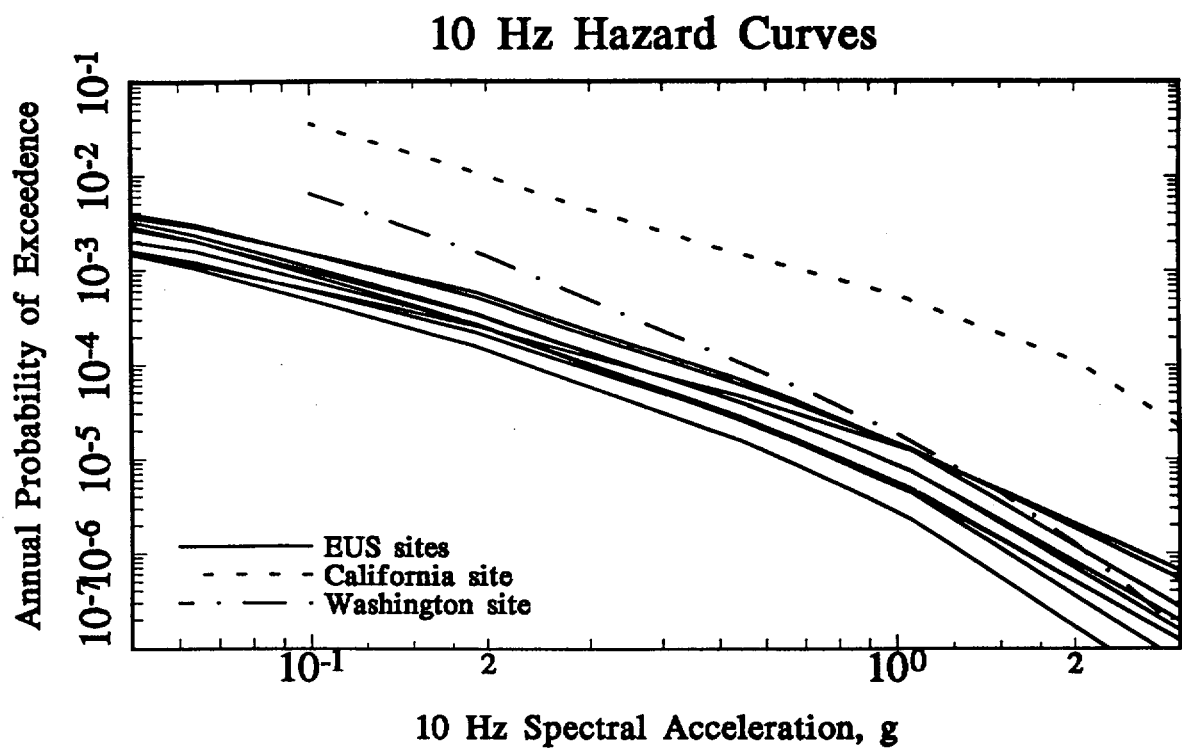


Figure 7-7. SA (10 Hz) hazard curves for the eleven test sites: (top) as calculated, (bottom) normalized by the acceleration value corresponding to 10^{-4} annual probability.

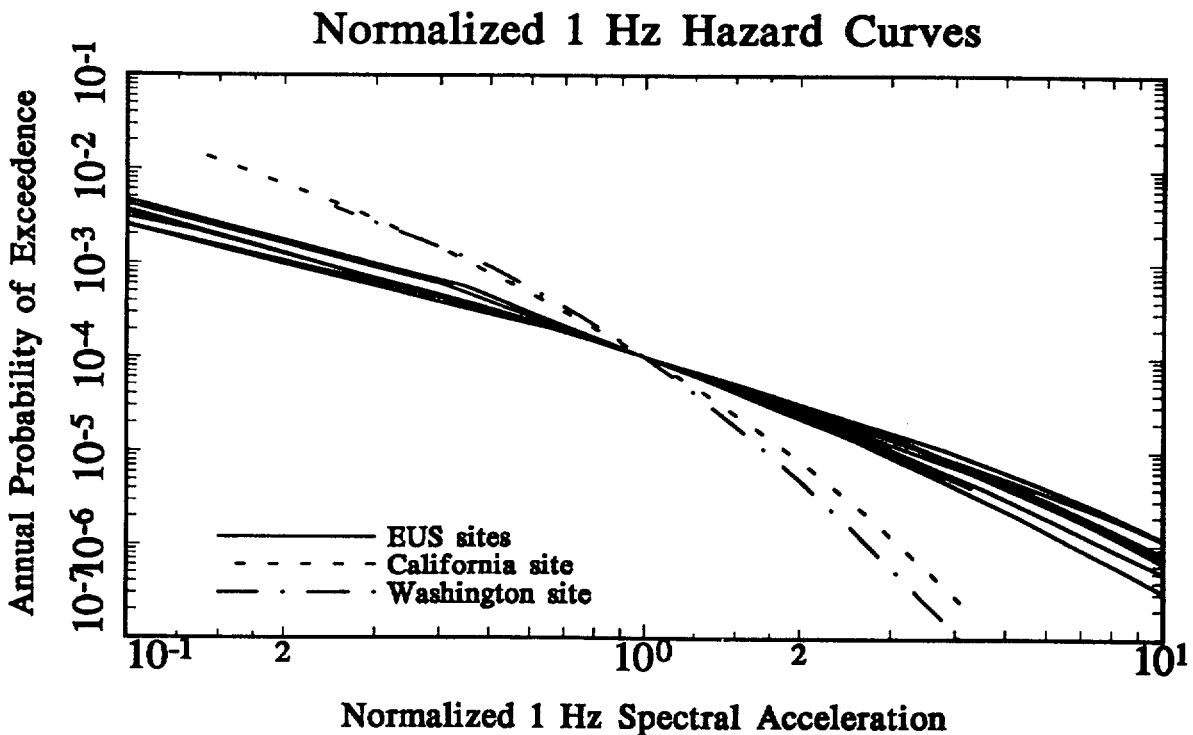
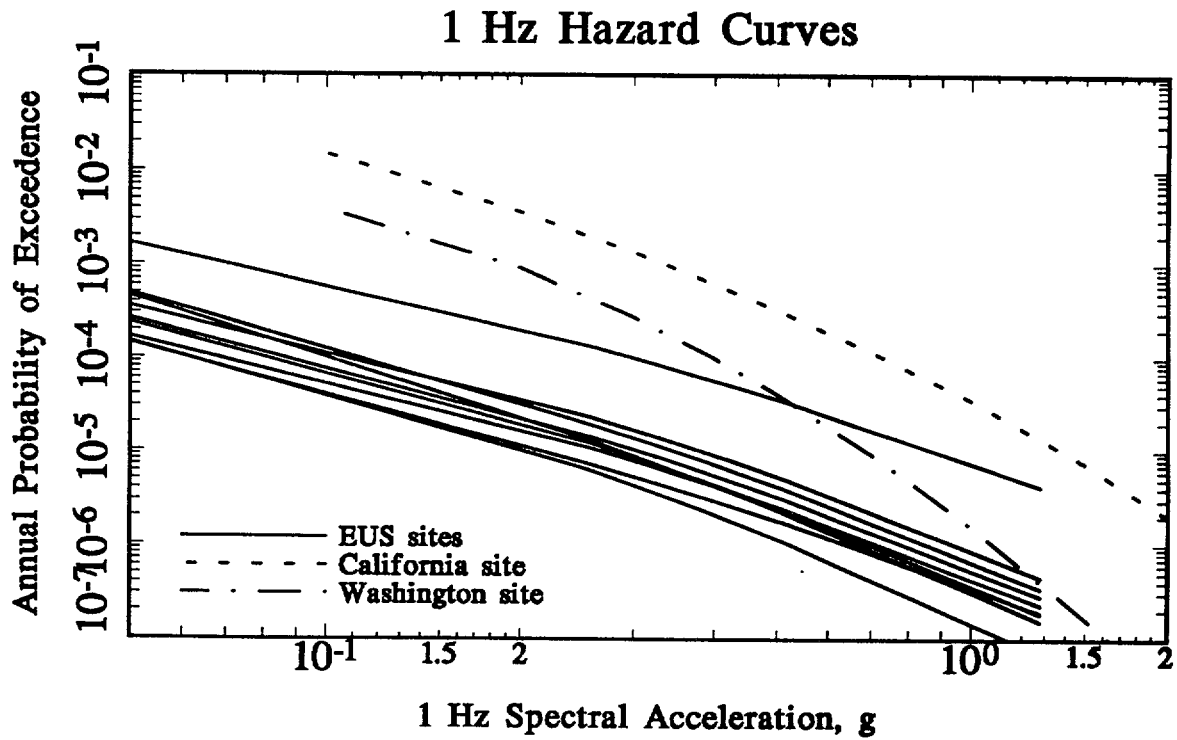


Figure 7-8. SA (1 Hz) hazard curves for the eleven test sites: (top) as calculated, (bottom) normalized by the acceleration value corresponding to 10^{-4} annual probability.

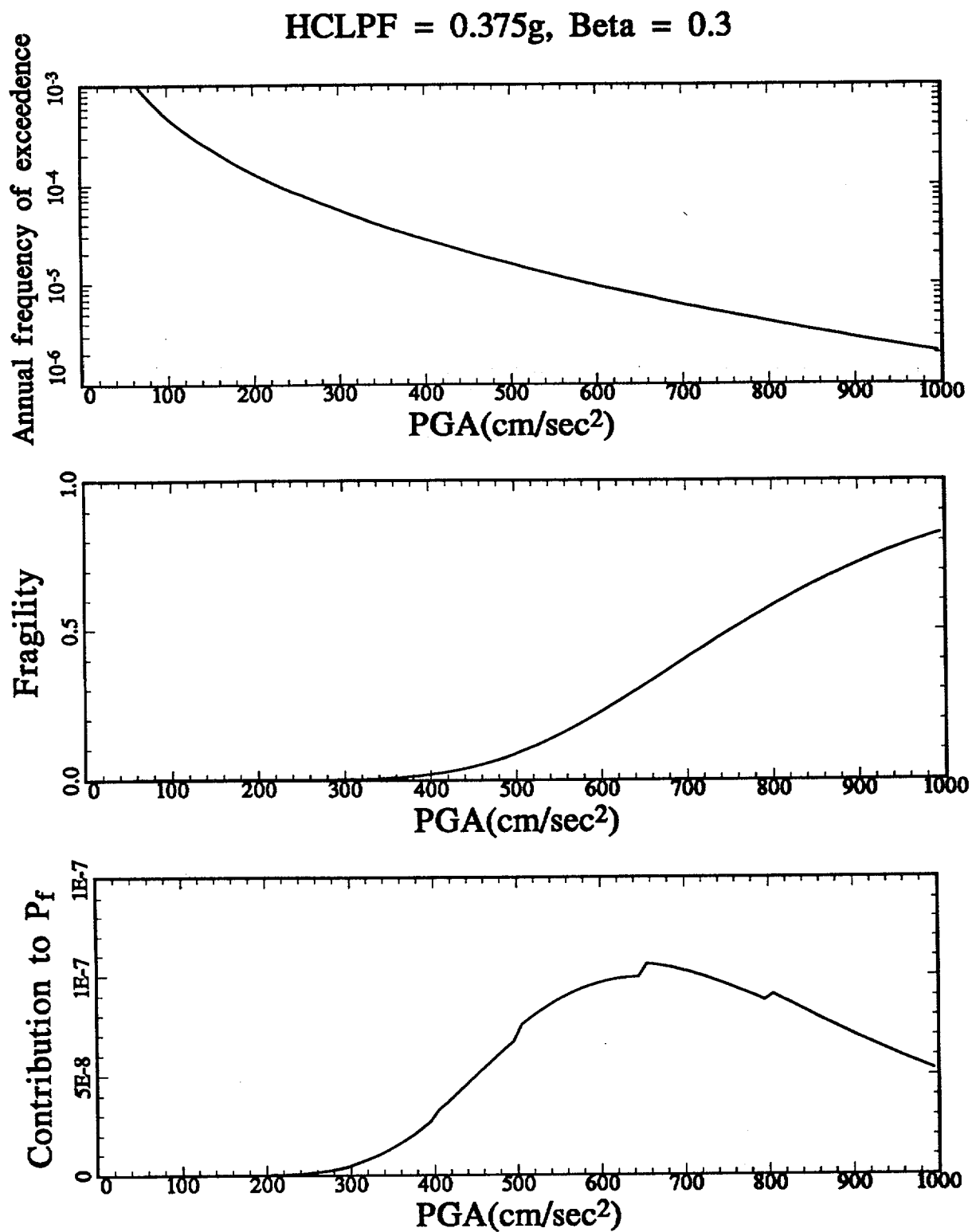


Figure 7-9. Maine Yankee PGA seismic hazard curve (top), fragility curve for $\beta = 0.3$ (middle), and contributions to P_F by PGA (bottom).

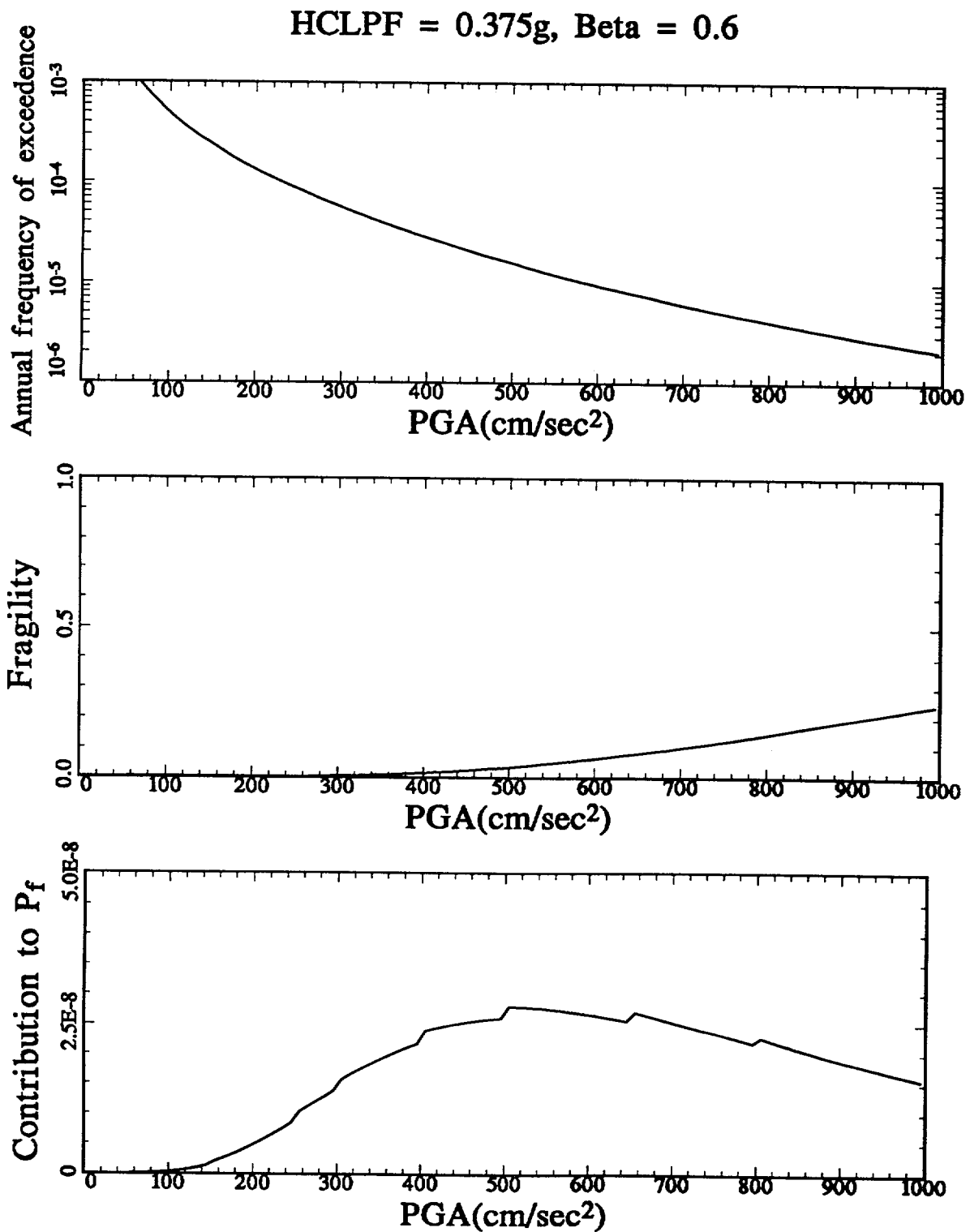


Figure 7-10. Maine Yankee PGA seismic hazard curve (top), fragility curve for $\beta = 0.6$ (middle), and contributions to P_F by PGA (bottom).

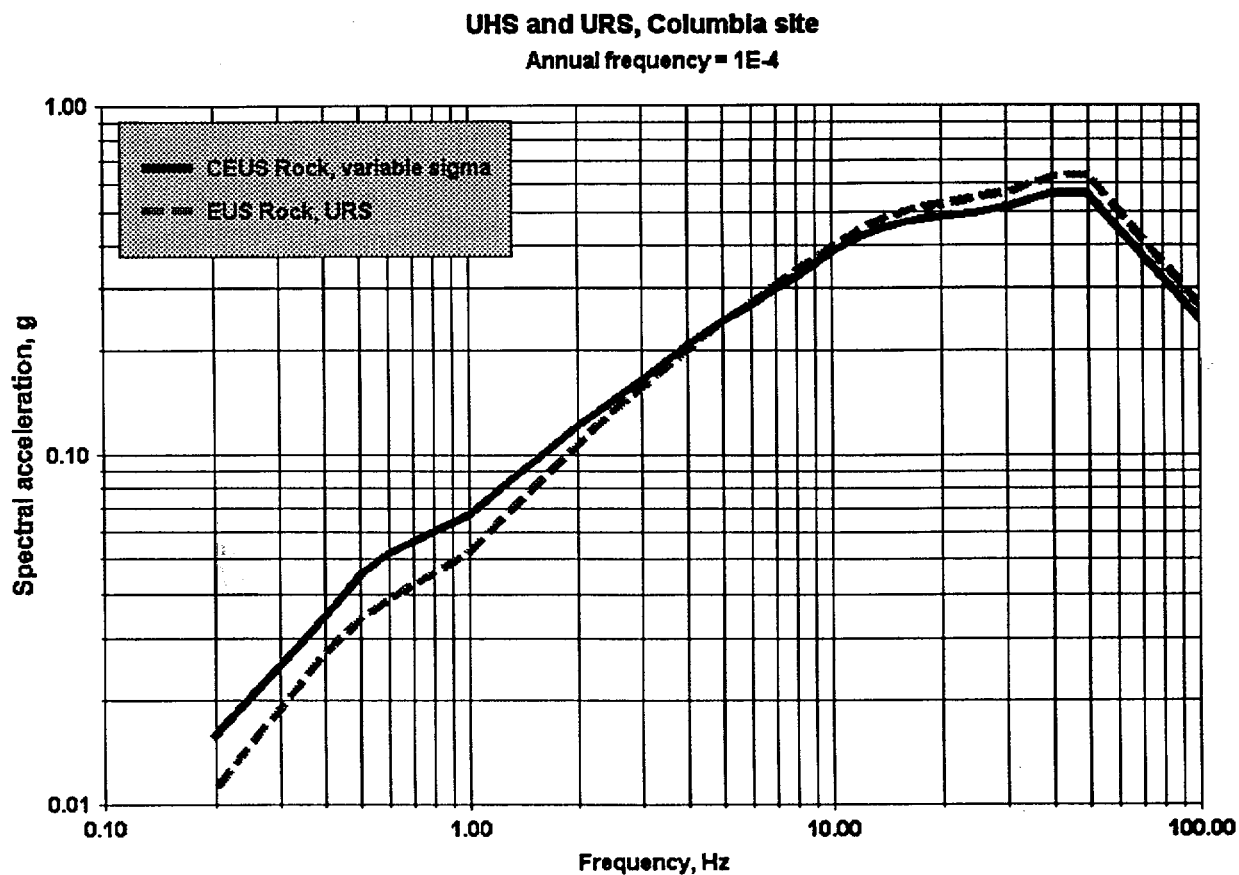


Figure 7-11. UHS for Columbia site, with URS calculated from seismic hazard analysis.

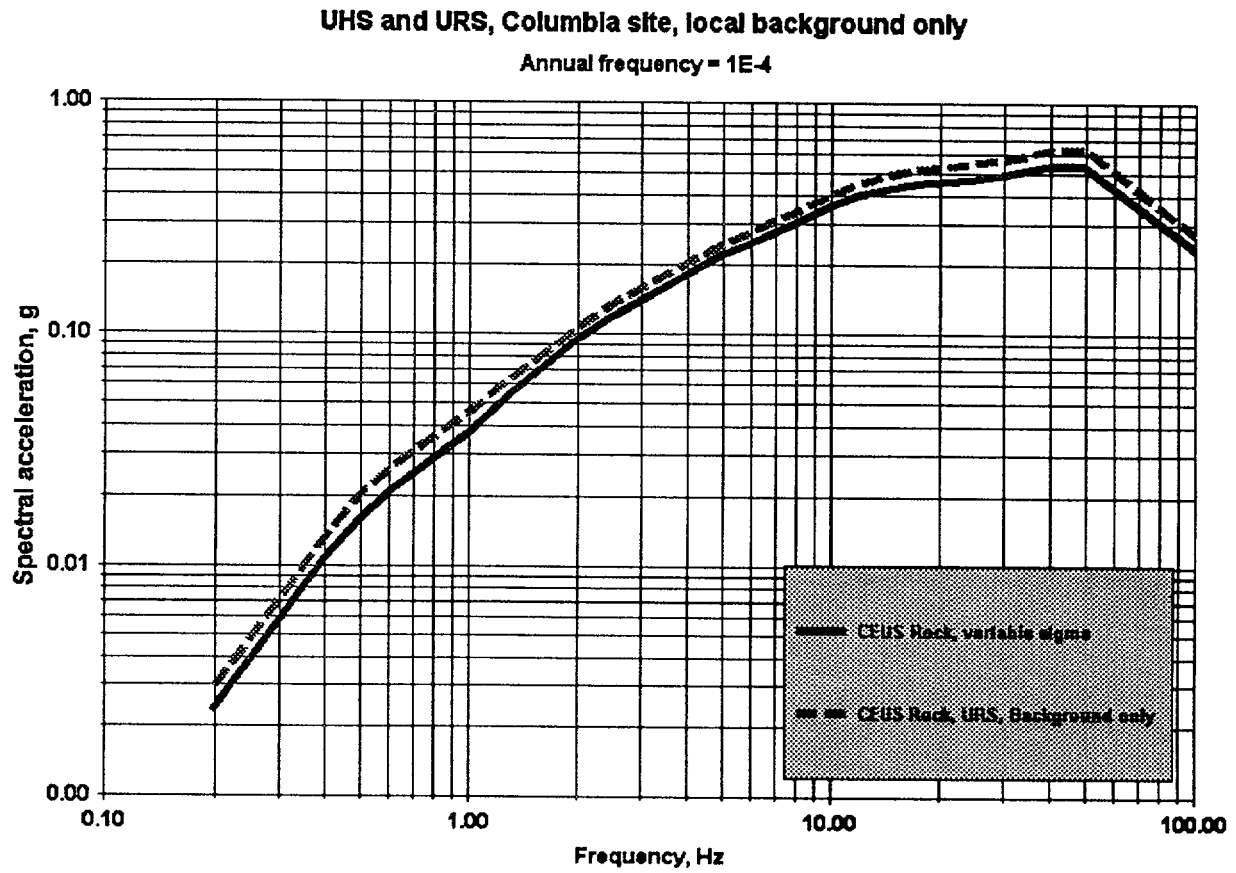


Figure 7-12. UHS for Columbia site, with URS calculated from seismic hazard analysis using background source only.

UHS and URS, Mojave site

Annual frequency = $1E-4$

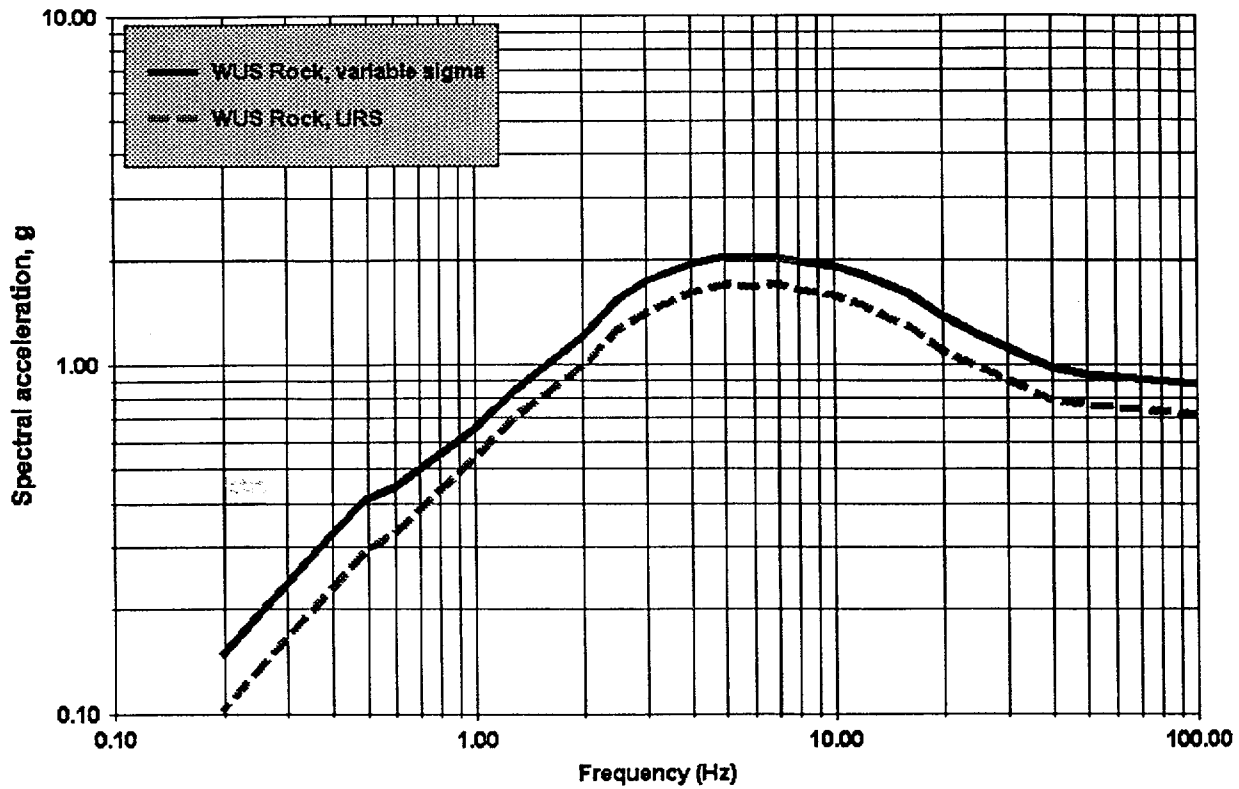
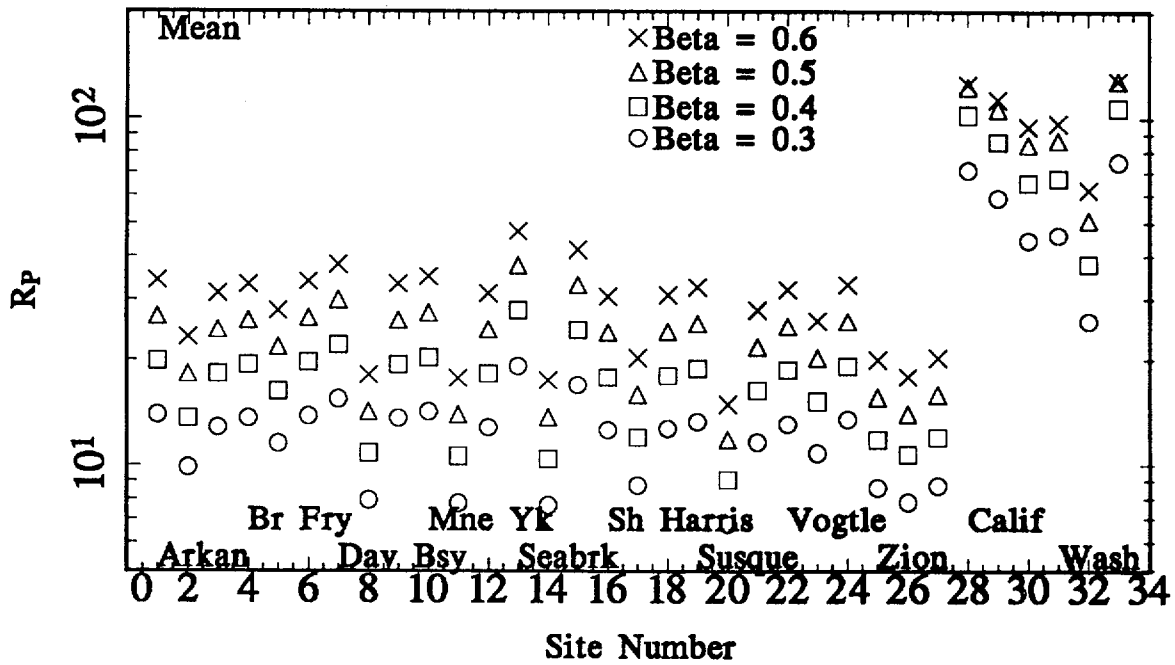


Figure 7-13. UHS for Mojave site with URS calculated from seismic hazard analysis.

HCLPF1 design using factor 1.67



HCLPF2 design using factor 1.67 x SF

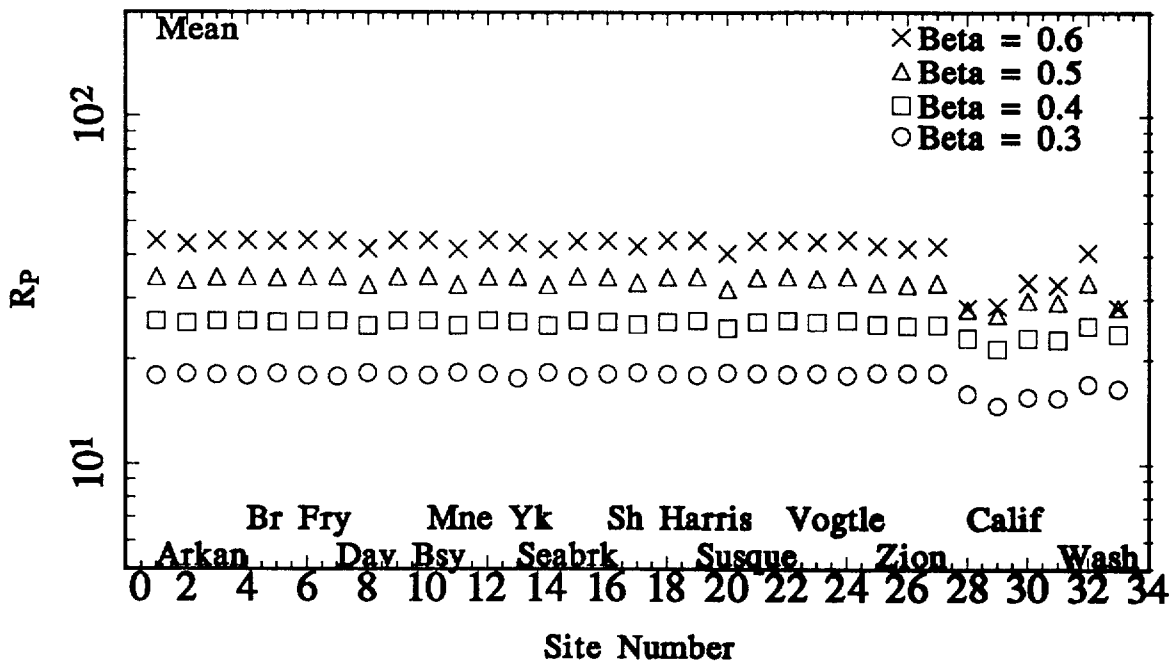


Figure 7-14. R_p calculated from risk equation for 11 test sites and 3 parameters, using $\alpha = 1.67$ (top) and using $\alpha = 1.67 \times SF$ (bottom).

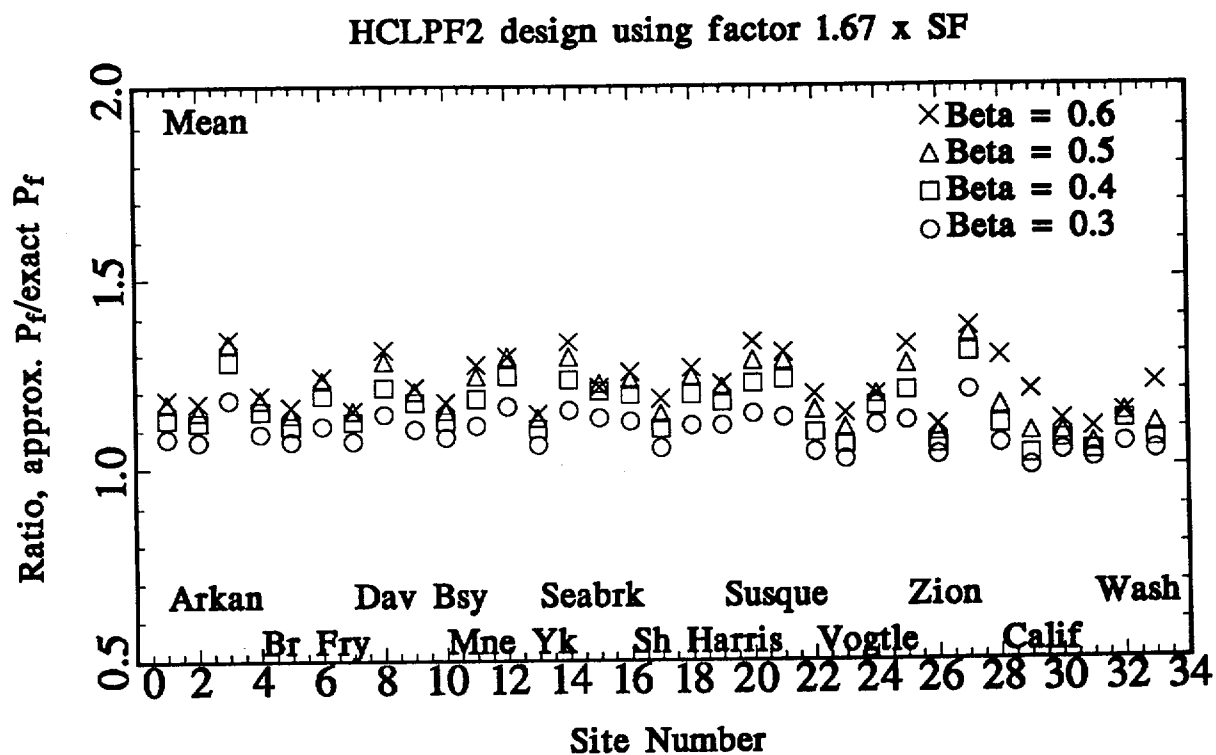
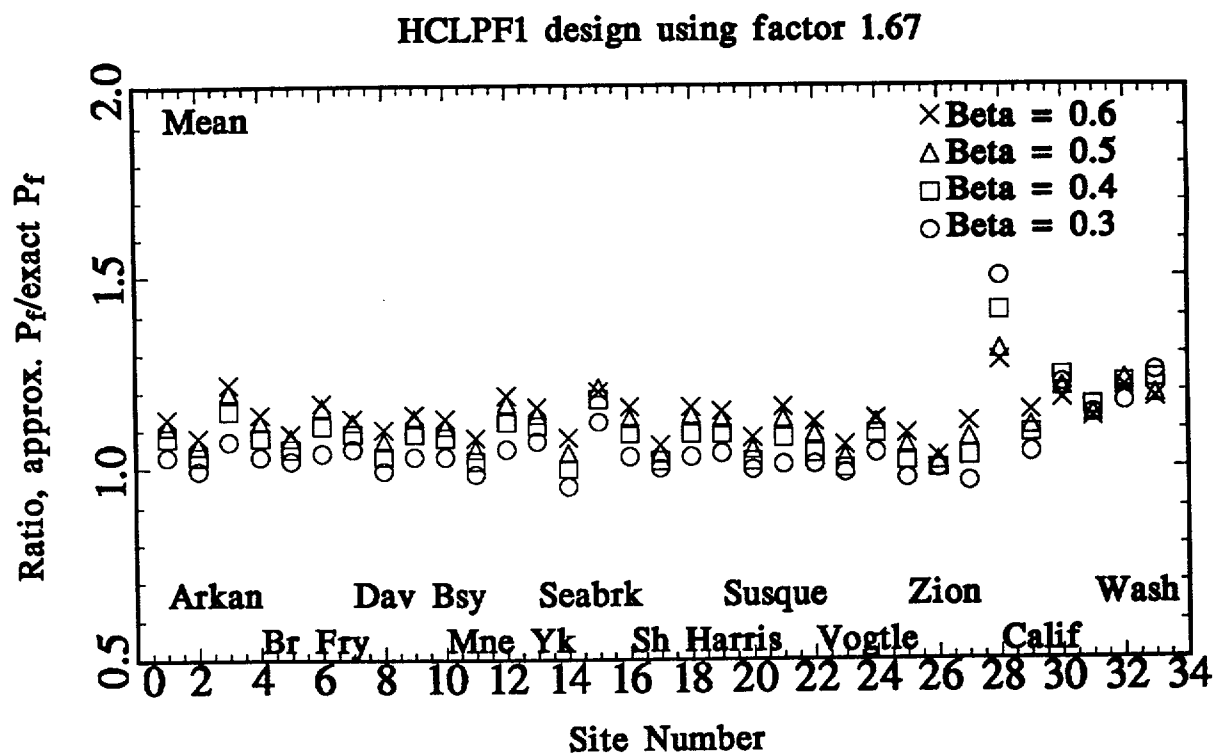
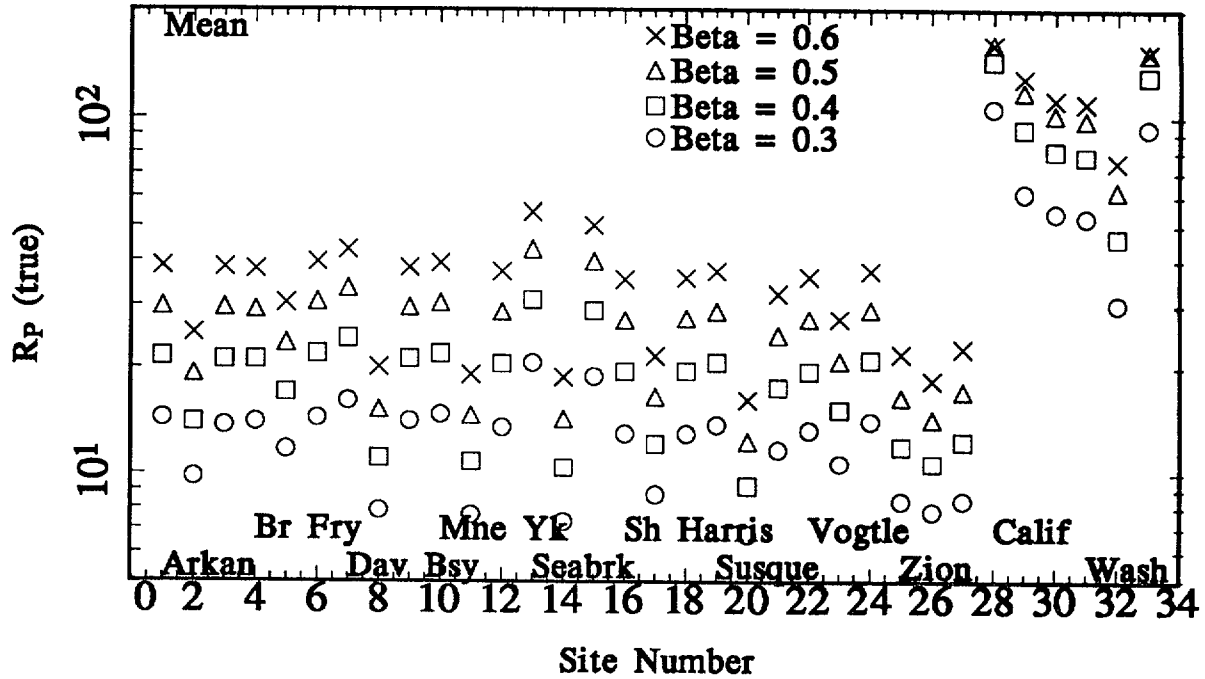


Figure 7-15. Ratio of approximate to exact P_f using $\alpha = 1.67$ (top), and using $\alpha = 1.67 \times SF$ (bottom).

HCLPF1 design using factor 1.67



HCLPF2 design using factor $1.67 \times SF$

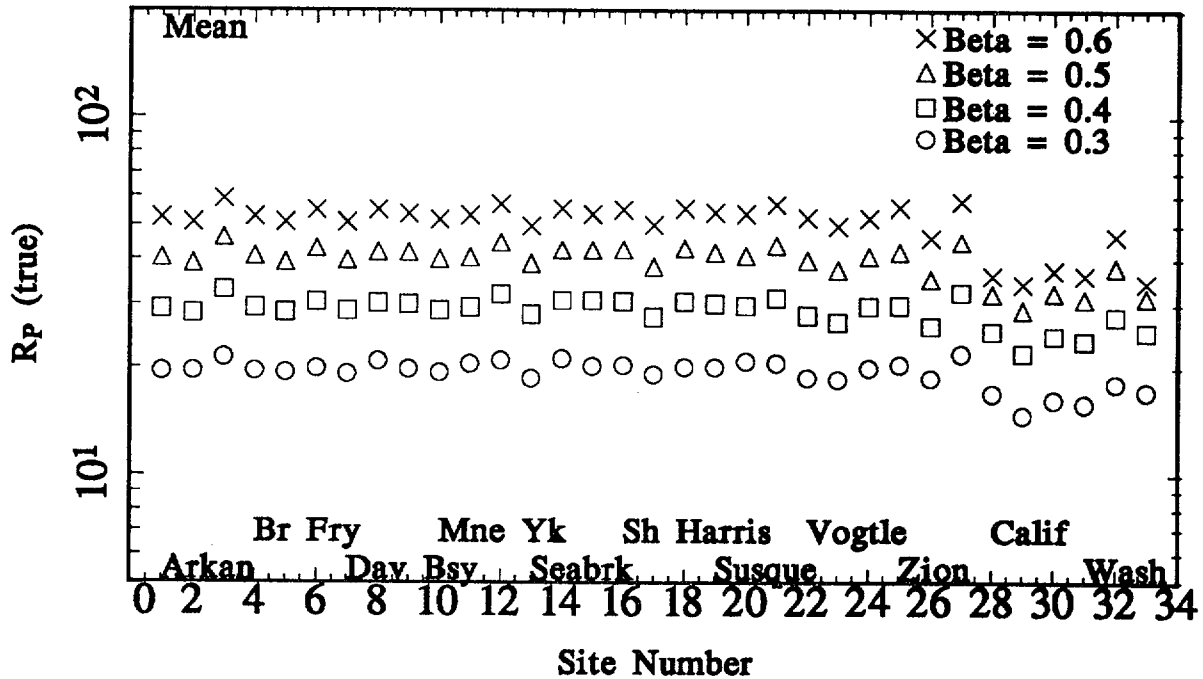
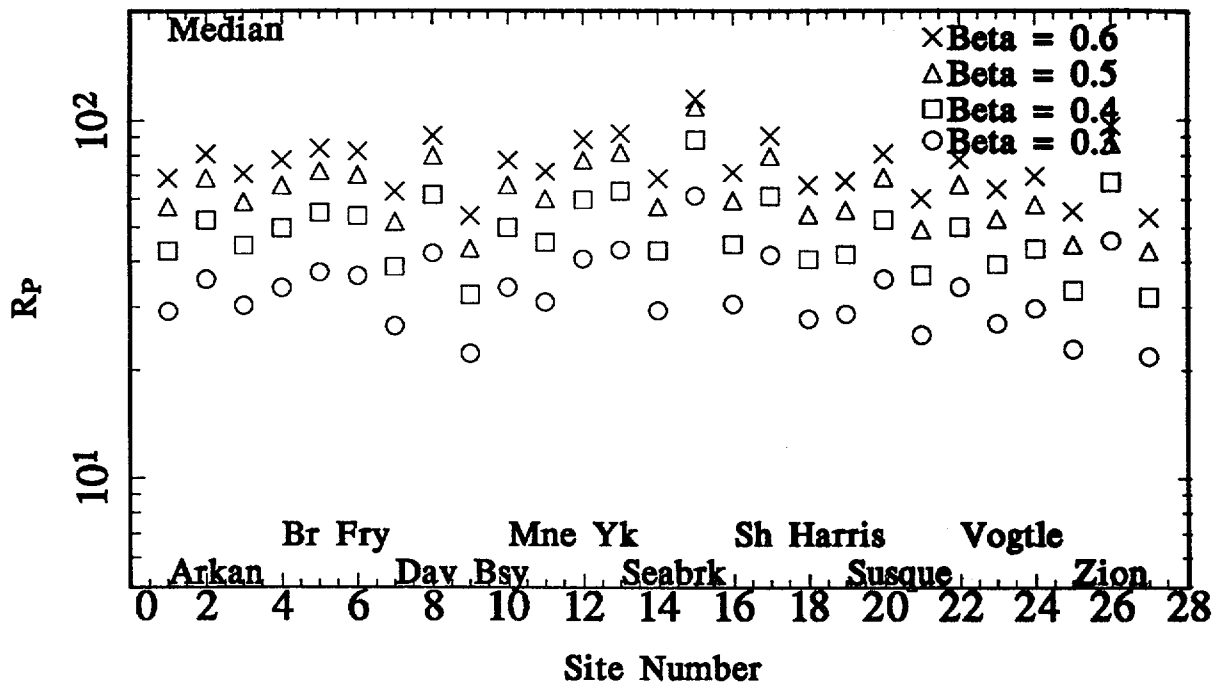


Figure 7-16. R_p calculated from direct integration for 11 test sites and 3 parameters, using $\alpha = 1.67$ (top) and using $\alpha = 1.67 \times SF$ (bottom).

HCLPF1 design using factor 1.67



HCLPF2 design using factor $1.67 \times SF$

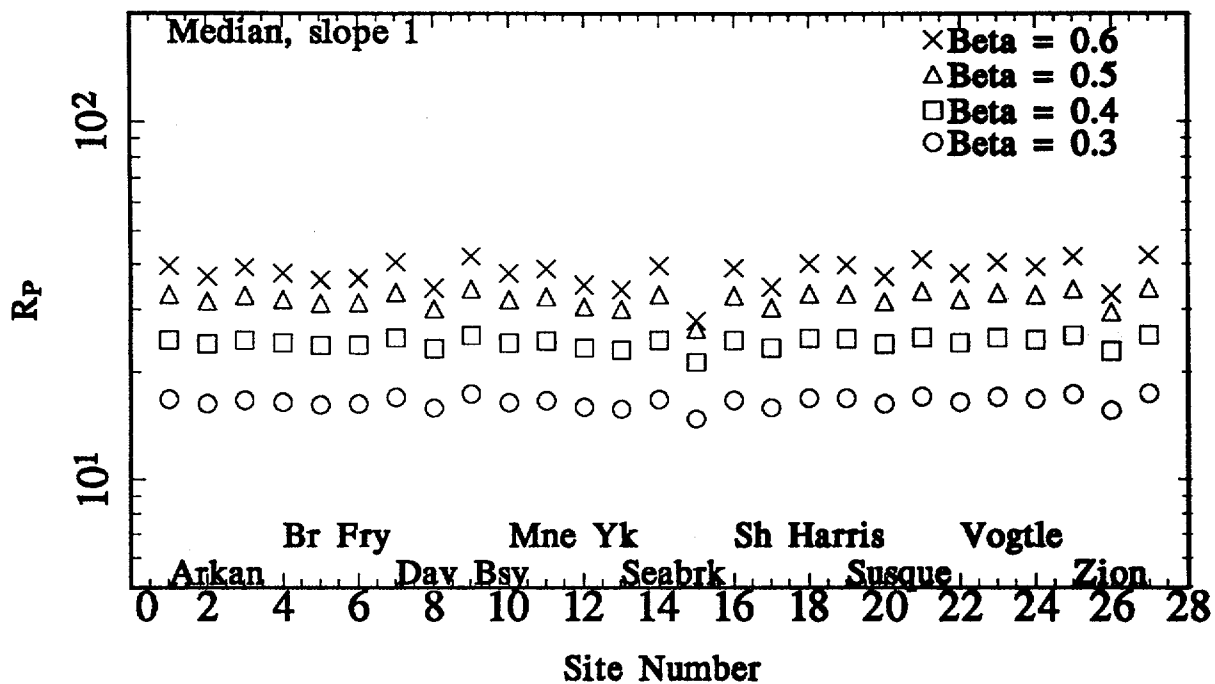


Figure 7-17. R_p calculated from direct integration for 11 test sites and 3 parameters, using median hazard curves.

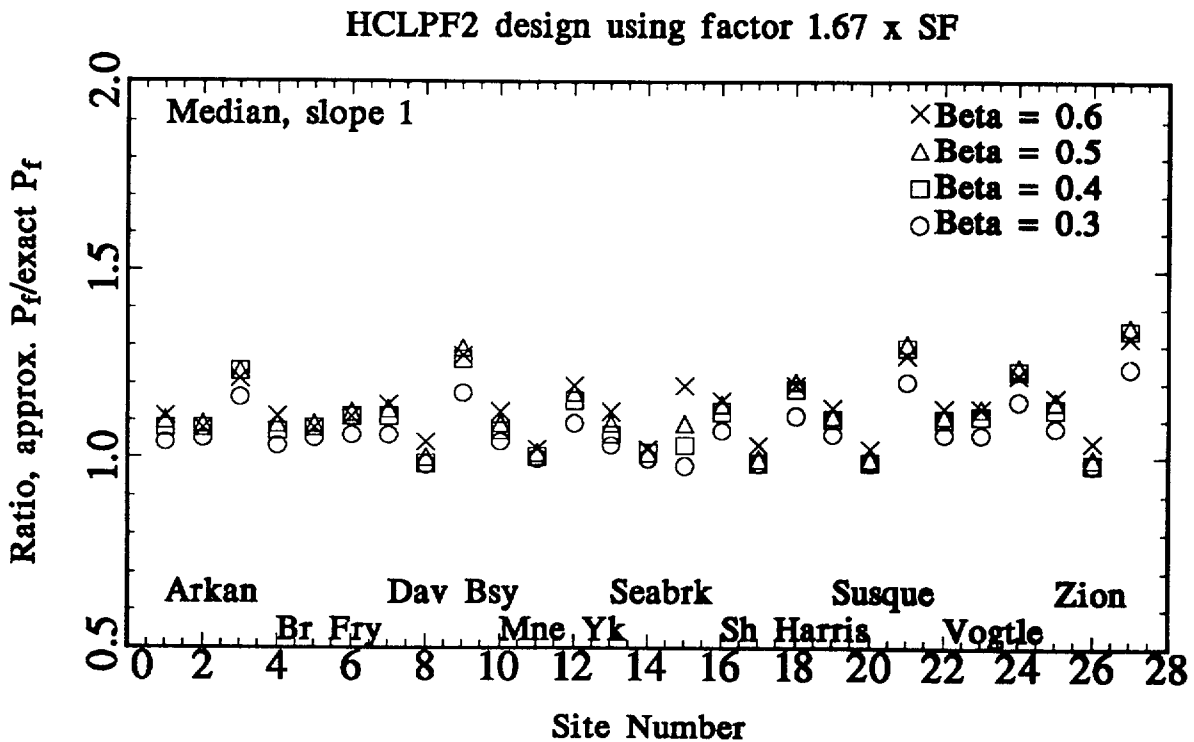
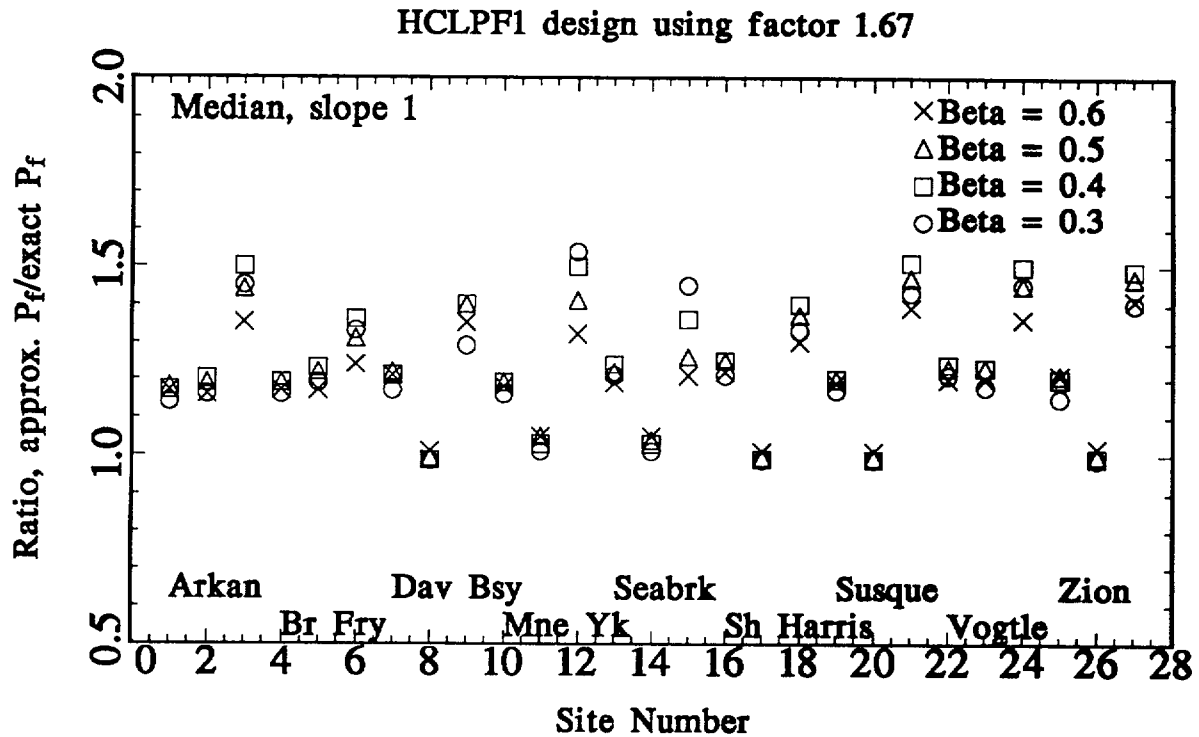


Figure 7-18. Ratio of approximate to exact P_F using $\alpha = 1.67$ (top) and using median hazard curves.

8. CONCLUSIONS AND RECOMMENDATIONS

8.1 Response Spectral Shapes

This report documents seismic response spectral shapes for design and analysis that were developed from empirical attenuation equations in the western US (WUS) and verified with observed data. These rock spectral shapes use continuous **M** and **R** scaling and are valid in the WUS for **M** in the range 4.75 to 8 and **R** in the range 0 to 200 km. For Cascadia subduction zone earthquakes the shapes are valid for **M** up to about 9 and distances to 300 km.

For the central and eastern US (CEUS), the WUS shapes were modified with a transfer function based on a random vibration model of strong ground motion that accounts for differences in source parameters, crustal damping, and near-surface damping. This transfer function was verified with observed data. CEUS rock spectral shapes are valid for **M** from 4.75 to 8 and **R** in the range 0 to 400 km.

These shapes will be scaled in design to a uniform hazard spectrum (UHS) at frequencies around 1 and 10 Hz. The frequency range of these shapes is 0.2 to 100 Hz, which allows the ratio of spectral acceleration to peak ground acceleration to reach nearly unity for hard rock conditions. For soft rock conditions this ratio will reach unity at 40-50 Hz.

The spectral shapes reflect median fractile estimates of spectral response. The shapes will be scaled to a UHS that reflects both epistemic and aleatory uncertainty, so further broadening or increasing the shapes by applying a higher fractile level is neither warranted nor justified.

Spectral shapes for soil conditions have not been developed because soil response depends strongly on the characteristics of the rock control motions and on the nonlinear dynamic soil properties. This is strongly site-dependent problem. The report includes examples of how to develop hazard-consistent soil spectra.

8.2 Time History Database

An important part of the project has been the development of a time history database for analysis. Recorded time histories of strong ground motion are archived for **M** and **R** bins that were selected to preserve significant differences in spectral composition and time domain characteristics such as duration. Each bin contains records reflecting ranges in **M** and **R**, and the report includes guidelines to make within-bin **M** and **R** adjustments for spectral matching.

In the WUS the bins are populated largely with recorded motions. Sparse bins were supplemented with scaled empirical records (from adjacent bins) and with a few direct finite-fault simulations. Since few records exist for the CEUS, motions in the database were created by modifying WUS motions to CEUS conditions. These motions are not as desirable as directly recorded data, and the database should be updated as new motions are recorded in the CEUS.

8.3 Development of Artificial Time Histories

This report makes recommendations on how to develop artificial time histories of motion that match target response spectra. The database of motions described above would be the starting point for this development. Artificial motions should be computed at 100 points per frequency decade between 0.2 and 50 Hz (or at the Nyquist frequency, if higher). The basis for comparison between one or a suite of artificial motions and the target spectrum is at frequencies between 0.2 and 25 Hz. The report includes rules for acceptability of the artificial motions based on under- or over-estimation of the target response spectrum at multiple frequencies.

There is no check required of the power spectral density function. However, the overall duration (5% to 75% Arias intensity) and ratios of PGV/PGA and $PGA \cdot PGD / PGV^2$ must be consistent with bin averages from the time history database.

The directional correlation between components of artificial motion (horizontal-to-horizontal and horizontal-to-vertical) should be checked. The lag-zero cross-correlation coefficient between two horizontal components, and between a vertical and a horizontal component, should not exceed 0.3. This will ensure that no significant reduction in directional response can be achieved by special orientation of the structure.

These recommendations are sufficient to ensure that no significant gaps in Fourier amplitude spectra or power spectral density function will occur for the generated artificial motions.

8.4 Hazard-consistent Spectra on Soil

We examined multiple methods of calculating uniform hazard spectra on soil that would give UHS consistent with rock motions. These applications were for four soil profiles assumed to be located at a CEUS and a WUS site. Both sites were chosen so that different sources contributed to the 10 and 1 Hz hazard, making the task of estimating soil response more challenging.

The most direct method to estimate UHS on soil is to develop a site-specific attenuation equation for motions at the soil surface, and to use this in a seismic hazard analysis. The disadvantage of the direct approach is that the seismic hazard analysis must be redone for each set of soil depths and parameters at a facility, and must be redone when additional properties are measures in the field or the lab (shear wave velocity, damping, stiffness). We examined two approximate approaches (and variants of these) that were based on a rock UHS at the site and that could be used to estimate an approximate soil UHS. Each approach relies on estimating a dominant M and R from the rock hazard, and driving the soil column with several motions scaled to the rock UHS with that M and R . We also examined an approach based on integrating over the rock hazard curve, converting the rock motion to soil motion and calculating seismic hazard for soil amplitudes.

A recommendation on the best method of estimating soil response awaits further comparisons to be made in a companion report on implementation of the methodology.

8.5 Risk-consistent Spectra

Spectra that are risk-consistent in terms of nuclear power plant component failure frequencies can be achieved by accounting for the slope of the hazard curves at each frequency. These slopes are important because they affect the frequency of higher ground motions, given a design that for example is keyed to the 10^{-4} UHS. We recommend modifying the rock UHS, based on the slope of the hazard from 10^{-4} to 10^{-5} , to achieve a "uniform reliability spectrum" (URS) for design that achieves consistent component failure frequencies.

The prescribed method of deriving the URS from the UHS is illustrated using three ground motion parameters (PGA and spectral acceleration at 10 and 1 Hz) at eleven nuclear plant sites across the US. The range of plant component failure frequencies is reduced from a factor of about 20 across all sites and parameters, to a factor of 3. This remaining factor results from different component failure uncertainties, and is not reducible within the context of current design procedures.

A specific recommendation for a UHS modification to achieve a URS depends on the hazard level chosen for design (the example used here is 10^{-4}) and on the deterministic level of conservatism associated with design codes and guides (the example used here is a factor of 1.67 on the design motion). With other hazard levels or deterministic levels, different forms of the modification factor would be recommended, but they would achieve the same degree of consistency as illustrated here.

APPENDIX A STRONG MOTION CATALOG (WUS)

The following catalog lists the WUS processed recordings for each earthquake and site condition.

PACIFIC ENGINEERING AND ANALYSIS STRONG-MOTION CATALOG (08/06/97)

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
	Helena, Montana 00	1935	1031	1838	6.2	5.5	6.0	0.0	2022 99	Carroll College	8.0* 999.9	EZA -	0.20 0.20 0.20	15.0 15.0 15.0	0.102 0.150 0.173	7.3 5.8 16.5	2.29 1.00 2.37
0002	Helena, Montana 01	1935	1031	1918	0.0	0.0	0.0	0.0	2229 99	Helena Fed Bldg	36.7* 999.9	EAA -	0.50 1.00 0.50	20.0 20.0 20.0	0.012 0.047 0.041	0.3 0.7 0.7	0.57 0.23 0.45
0003	Humbolt Bay 99	1937	0207	0442	5.8	5.8	0.0	0.0 USGS	1023 99	Ferndale City Hall	73.7* 999.9	BQD -	0.60 0.50 0.30	10.0 10.0 10.0	0.019 0.044 0.038	1.2 2.6 3.2	0.12 0.30 0.45
0004	Imperial Valley 99	1938	0606	0242	0.0	0.0	0.0	5.0 USGS	117 99	El Centro Array #9	36.7* 999.9	EQD C	1.50 1.00 0.60	20.0 12.0 12.0	0.012 0.012 0.019	0.3 0.5 0.8	0.01 0.04 0.06
0005	Northwest Calif 99	1938	0912	0610	5.5	5.5	0.0	5.5 USGS	1023 99	Ferndale City Hall	55.0* 999.9	BQD -	0.30 0.50 0.20	15.0 11.0 11.0	0.030 0.134 0.097	1.4 7.2 5.4	0.14 0.58 0.78
A-2 0006	Imperial Valley 00	1940	0519	0437	7.0	0.0	7.2	0.0 USGS	117 00	El Centro Array #9	8.3 12.0	EQD C	0.20 0.20 0.20	15.0 15.0 15.0	0.205 0.313 0.215	10.7 29.8 30.2	9.16 13.32 23.91
0007	Northwest Calif 99	1941	0209	0945	0.0	0.0	0.0	6.6 USGS	1023 99	Ferndale City Hall	97.2* 999.9	BQD -	0.10 0.50 0.50	12.0 13.0 10.0	0.018 0.062 0.039	1.5 3.6 3.2	0.26 0.89 0.54
0008	Northern Calif 99	1941	1003	1614	0.0	0.0	0.0	6.4 USGS	1023 99	Ferndale City Hall	49.6* 999.9	BQD -	0.50 0.20 0.50	13.0 13.0 13.0	0.038 0.114 0.122	2.6 5.9 6.3	0.26 1.77 1.15
0009	Borrego 99	1942	1021	1622	0.0	0.0	0.0	6.5 USGS	117 99	El Centro Array #9	49.0* 999.9	EQD C	0.20 0.10 0.10	20.0 15.0 15.0	0.033 0.068 0.044	1.1 3.9 4.0	0.30 1.37 1.41
0010	Imperial Valley 99	1951	0124	0717	0.0	0.0	0.0	5.6 USGS	117 99	El Centro Array #9	28.5* 999.9	EQD C	0.40 0.40 0.15	20.0 13.0 12.0	0.013 0.029 0.030	0.6 2.4 2.9	0.14 0.39 0.92
0011	Northwest Calif 99	1951	1008	0411	5.8	0.0	0.0	0.0 USGS	1023 99	Ferndale City Hall	56.0* 999.9	BQD -	0.40 0.50 0.50	20.0 12.0 12.0	0.031 0.105 0.110	2.1 4.6 6.1	0.22 0.47 0.82
0012	Kern County 03	1952	0721	1153	7.4	0.0	7.7	0.0 USGS	135 99	LA - Hollywood Stor FF	120.5 107.0	IPD C	0.50 0.50 0.50	17.4 13.9 14.7	0.022 0.044 0.057	2.5 6.0 5.3	0.68 2.44 1.68
								USGS	135	LA - Hollywood Stor Lot	120.5	IPD	0.20	20.0	0.021	2.8	2.55

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	USGS	No.	Description H/F			HP (hz)	LP (hz)			
										99		107.0	C	0.20	15.0	0.042	7.5	4.79
														0.20	13.0	0.058	6.2	1.86
									CDMG	80053	Pasadena - CIT Athenaeum	127.0	CQD	0.50	12.5	0.027	2.9	0.86
										99		109.0	B	0.50	12.5	0.045	5.6	1.25
														0.20	12.1	0.053	9.2	2.53
									USGS	283	Santa Barbara Courthouse	87.0	CQD	0.50	12.3	0.041	4.4	1.27
										99		85.0	B	0.50	14.3	0.087	12.1	2.81
														0.50	13.2	0.127	15.5	4.06
									USGS	1095	Taft Lincoln School	41.0	FQD	0.05	13.2	0.109	6.6	4.56
										02		42.0	B	0.05	13.9	0.156	15.3	9.25
														0.05	13.2	0.178	17.5	8.99
0013	Northern Calif 99	1952	0922	1141	5.2	5.2	0.0	5.5	USGS	1023	Ferndale City Hall	39.3*	BQD	0.40	10.0	0.028	1.9	0.30
										99		999.9	-	0.30	12.0	0.062	5.6	1.17
														0.30	10.0	0.074	5.5	0.98
0014	Southern Calif 99	1952	1122	0746	0.0	0.0	0.0	6.0	USGS	1083	San Luis Obispo	70.0*	CBB	0.20	13.0	0.028	2.4	0.74
										99		999.9	-	0.20	13.0	0.036	2.8	0.93
														0.50	13.0	0.054	3.3	0.55
0015	Imperial Valley 99	1953	0614	0417	0.0	0.0	0.0	5.5	USGS	117	El Centro Array #9	28.5*	EQD	0.50	20.0	0.024	0.6	0.06
										99		999.9	C	0.60	15.0	0.006	0.4	0.06
														0.25	12.0	0.049	5.4	1.00
0016	Central Calif 99	1954	0425	2033	0.0	0.0	0.0	5.3	USGS	1028	Hollister City Hall	28.0*	CHD	0.30	11.0	0.020	1.6	0.26
										99		999.9	C	0.40	10.0	0.049	4.7	0.63
														0.50	10.0	0.051	3.9	0.42
0017	Northern Calif 99	1954	1221	1956	0.0	0.0	0.0	6.5	USGS	1023	Ferndale City Hall	31.5*	BQD	0.50	13.0	0.039	6.9	2.03
										99		999.9	-	0.20	20.0	0.159	33.9	13.34
														0.50	13.0	0.189	25.3	5.86
0018	Imperial Valley 99	1955	1217	0607	0.0	0.0	0.0	5.4	USGS	117	El Centro Array #9	28.4*	EQD	0.60	15.0	0.028	0.9	0.07
										99		999.9	C	0.23	12.0	0.056	4.0	0.79
														0.20	15.0	0.042	3.7	0.70
0019	El Alamo 99	1956	1217	1433	0.0	0.0	0.0	6.8	USGS	117	El Centro Array #9	130.0	EQD	0.50	20.0	0.014	1.7	0.77
										99		999.9	C	0.10	15.0	0.033	4.1	2.89
														0.10	15.0	0.052	6.6	4.93
0020	San Francisco 02	1957	0322	1944	5.3	5.3	0.0	0.0	USGS	1117	Golden Gate Park	9.5*	IBA	0.30	25.0	0.047	1.1	0.18
										02		8.0	A	0.80	20.0	0.095	3.9	0.19
														0.30	20.0	0.112	4.6	0.43
0021	Central Calif 99	1960	0120	0326	0.0	0.0	0.0	5.0	USGS	1028	Hollister City Hall	14.9*	CHD	0.40	12.0	0.027	1.7	0.25
										99		999.9	C	0.40	11.0	0.041	2.2	0.38
														0.50	11.0	0.063	3.6	0.60
0022	Northern Calif	1960	0606	0117	5.7	5.7	0.0	5.7	USGS	1023	Ferndale City Hall	58.9*	BQD	0.30	15.0	0.016	0.9	0.17

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners				
		YR	MODY	HRMN	M	ML	MS	OTH		No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)
	99									99		999.9	-	0.30 0.40	15.0 15.0	0.072 0.065	3.8 3.0	0.59 0.35
0023	Hollister 99	1961	0409	0723	0.0	0.0	0.0	5.6	USGS	1028 99	Hollister City Hall	19.6* 999.9	CHD C	0.11 0.25 0.11	11.0 11.0 11.0	0.051 0.074 0.196	4.7 6.3 12.4	1.77 1.31 4.29
0024	Hollister 99	1961	0409	0725	0.0	0.0	0.0	5.5	USGS	1028 99	Hollister City Hall	12.6* 999.9	CHD C	0.30 0.40 0.30	13.0 12.0 11.0	0.049 0.072 0.075	3.0 4.9 9.7	0.53 0.71 1.75
0025	Parkfield 00	1966	0628	0426	6.1	6.1	0.0	0.0	CDMG	1013 00	Cholame #2	0.1 6.6	IHD C	0.20 0.20 -99.	20.0 10.0	0.255 0.476	13.7 75.1	3.79 22.49
									CDMG	1014 00	Cholame #5	5.3 9.3	IHC C	0.20 0.20 0.20	21.0 17.4 20.0	0.138 0.442 0.367	6.9 24.7 21.8	2.66 5.15 3.83
									CDMG	1015 00	Cholame #8	9.2 13.0	ABB C	0.20 0.20 0.20	24.0 20.0 20.0	0.116 0.246 0.273	4.3 10.2 11.3	1.48 3.60 3.20
									CDMG	1016 00	Cholame #12	14.7 17.3	IBB B	0.20 0.20 0.20	20.0 20.0 20.0	0.053 0.059 0.063	4.6 5.8 6.8	2.10 2.56 3.55
									USGS	1083 00	San Luis Obispo	60.0 63.6	CBB -	0.20 0.20 0.20	15.0 15.0 12.0	0.007 0.012 0.014	0.8 1.0 1.0	0.28 0.30 0.46
									CDMG	1438 00	Temblor pre-1969	9.9 16.1	IJA B	0.20 0.20 0.20	16.9 14.7 15.1	0.136 0.357 0.272	4.4 21.5 15.0	1.10 3.87 3.40
0026	Northern Calif 99	1967	1210	1206	5.6	5.6	0.0	5.8	USGS	1023 99	Ferndale City Hall	30.8* 999.9	BQD -	0.40 0.30 0.20	12.0 20.0 13.0	0.032 0.283 0.113	3.3 9.2 11.1	0.46 1.23 1.58
0027	Northern Calif 99	1967	1218	1725	0.0	0.0	0.0	5.2	USGS	1028 99	Hollister City Hall	45.0* 999.9	CHD C	0.50 0.30 0.30	15.0 15.0 15.0	0.011 0.013 0.013	0.5 2.0 1.0	0.09 0.37 0.27
0028	Borrego Mtn 00	1968	0409	0230	6.8	6.7	6.5	0.0	USGS	117 00	El Centro Array #9	46.0 45.0	BQD C	0.20 0.20 0.20	16.4 12.5 12.8	0.030 0.130 0.057	3.3 26.3 13.2	1.99 12.18 10.03
									USGS	135 00	LA - Hollywood Stor PE Lot	217.4 211.0	IPD C	0.20 0.20 0.10	30.0 13.0 13.0	0.005 0.012 0.011	1.1 2.9 2.3	1.10 1.30 2.33
									USGS	130 00	LB - Terminal Island	195.0 187.0	CCD C	0.10 0.10 0.10	20.0 15.0 15.0	0.005 0.010 0.009	1.6 2.8 3.0	1.76 2.53 5.46
									CDMG	475	Pasadena - Athenaeum	203.0	CQD	0.50	13.0	0.004	0.5	0.38

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
0029	Lytle Creek 03	1970	0912	1430	5.4	5.4	0.0	0.0	CDMG	24278 99	Castaic - Old Ridge Route	107.8* 999.9	A-B B	0.50	13.0	0.007	1.4	0.82
														0.50	13.0	0.009	1.8	0.64
														0.20	15.0	0.062	1.9	0.50
														0.10	20.0	0.041	3.7	1.72
														0.20	20.0	0.045	3.7	1.30
														0.70	20.0	0.010	0.4	0.03
														0.50	20.0	0.021	0.9	0.07
														0.50	20.0	0.026	1.5	0.15
														-99.				
														0.60	15.0	0.071	1.8	0.11
														1.10	20.0	0.050	1.2	0.06
														1.00	15.0	0.037	1.3	0.08
														0.50	20.0	0.069	2.6	0.14
														0.40	15.0	0.077	3.7	0.39
														0.60	15.0	0.035	1.3	0.11
														0.40	12.0	0.033	1.6	0.17
														0.50	11.0	0.038	1.3	0.14
														1.10	30.0	0.084	1.8	0.10
														1.00	20.0	0.146	3.3	0.18
														1.00	30.0	0.151	5.6	0.23
0030	San Fernando 02	1971	0209	1400	6.6	0.0	6.6	0.0	CDMG	125 99	Lake Hughes #1	93.5* 999.9	APC -	1.10	15.0	0.006	0.3	0.02
														0.80	10.0	0.009	0.7	0.08
														0.35	20.0	0.008	0.6	0.10
														0.90	20.0	0.007	0.3	0.02
														0.30	20.0	0.017	1.0	0.14
														0.40	20.0	0.018	0.7	0.06
														0.35	20.0	0.014	0.7	0.12
														0.50	20.0	0.018	0.9	0.09
														0.50	20.0	0.019	0.9	0.12
														1.20	25.0	0.013	0.3	0.01
														1.00	25.0	0.042	1.6	0.10
														0.40	25.0	0.018	0.5	0.04
														0.60	40.0	0.078	2.3	0.25
														0.60	20.0	0.162	10.1	1.02
														0.70	30.0	0.200	10.5	0.62
														0.20	20.0	0.020	2.0	1.26
0030	San Fernando 02	1971	0209	1400	6.6	0.0	6.6	0.0	CDMG	2 99	2516 Via Tejon PV	65.1 999.9	CBC -	0.20	20.0	0.026	3.8	2.19
														0.20	20.0	0.041	4.2	3.11
														0.50	35.0	0.015	0.7	0.20
														0.50	35.0	0.027	1.4	0.25
														0.50	35.0	0.037	2.2	0.30
														0.10	15.0	0.007	0.7	0.69
														0.10	13.0	0.007	1.4	1.08
														0.10	20.0	0.007	1.2	1.23

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)	LP (hz)			
								USGS	105 99	Borrego Springs Fire Sta	212.0 999.9	AAC -	0.10 0.10 0.10	30.0 23.0 30.0	0.005 0.009 0.009	1.2 1.2 1.2	1.13 1.22 0.90
								USGS	1 99	Buena Vista - Taft	118.0 999.9	AQD -	0.20 0.10 0.10	20.0 13.0 15.0	0.007 0.012 0.012	0.6 1.5 1.3	0.41 1.51 0.68
								ACOE	108 99	Carbon Canyon Dam	66.4 999.9	AMA -	0.50 0.50 0.50	35.0 35.0 35.0	0.043 0.070 0.071	1.6 2.7 3.9	0.93 1.27 0.85
								CDMG	24278 99	Castaic - Old Ridge Route	24.9 24.2	A-B B	0.50 0.50 0.50	35.0 35.0 35.0	0.171 0.324 0.268	6.5 15.6 25.9	1.28 2.31 4.67
								CDWR	111 99	Cedar Springs, Allen Ranch	86.6 999.9	AAA A	0.20 0.20 0.20	35.0 35.0 35.0	0.009 0.020 0.015	0.9 1.7 1.4	0.53 0.49 0.57
								CDWR	112 99	Cedar Springs - Pump	87.6 88.0	AAB -	0.10 0.10 0.10	20.0 20.0 20.0	0.012 0.027 0.025	0.8 2.0 2.9	0.30 0.31 0.40
								USGS	1013 99	Cholame-Shandon Array #2 @	219.0 999.9	IHD C	0.10 0.10 0.10	50.0 20.0 30.0	0.004 0.004 0.005	1.3 1.2 1.1	1.18 1.31 0.92
								USGS	1015 99	Cholame-Shandon Array #8	223.0 999.9	ABB C	-99. 0.10 0.10	30.0 23.0 23.0	0.005 0.006 0.006	1.1 1.0 1.6	0.97 0.75 0.97
								USGS	113 99	Colton - So Cal Edison @	89.6 91.0	ACD C	0.10 0.10 0.10	15.0 13.0 13.0	0.023 0.032 0.039	1.1 1.8 2.2	0.16 0.29 0.32
								CDMG	121 99	Fairmont Dam	29.1 999.9	AGA -	0.50 0.50 0.50	35.0 35.0 35.0	0.039 0.071 0.109	3.5 4.7 6.5	0.71 0.72 1.10
								USGS	998 99	Fort Tejon	64.1 64.0	AAB -	0.10 0.10 0.10	23.0 20.0 20.0	0.016 0.026 0.022	0.7 1.1 1.4	0.21 0.36 0.27
								CDWR	994 99	Gorman - Oso Pump Plant	48.1 46.7	EBC C	0.10 0.10 0.10	23.0 23.0 30.0	0.039 0.084 0.105	3.6 7.9 6.8	0.72 1.27 1.76
								CDMG	12331 99	Hemet Fire Station	136.0 999.9	AQD C	0.50 0.50 0.50	35.0 35.0 35.0	0.026 0.033 0.047	1.5 2.2 2.6	0.32 0.38 0.33
								ACOE	1035 99	Isabella Dam (Aux Abut)	113.0 999.9	AGA -	0.10 0.10 0.10	20.0 13.0 13.0	0.006 0.006 0.009	1.3 1.4 1.6	1.33 1.94 2.03
								USGS	135 99	LA - Hollywood Stor Lot	21.2 24.6	IPD C	0.50 0.20 0.20	35.0 35.0 35.0	0.136 0.210 0.174	4.3 18.9 14.9	1.52 12.40 6.25

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
								CDMG	125	Lake Hughes #1	25.8	APC	0.20	35.0	0.098	11.4	2.76
									99		23.4	-	0.50	35.0	0.145	17.3	2.88
													0.50	35.0	0.110	14.0	1.93
								USGS	126	Lake Hughes #4	24.2	IGA	0.50	35.0	0.164	6.4	0.93
									99		19.6	C	0.50	35.0	0.192	5.6	0.92
													0.50	35.0	0.153	8.4	1.85
								USGS	127	Lake Hughes #9	23.5	AGA	0.50	35.0	0.088	2.3	0.87
									99		20.2	-	0.50	35.0	0.157	4.5	1.28
													0.50	35.0	0.134	3.9	1.12
								CDMG	128	Lake Hughes #12	20.3	AEB	0.50	35.0	0.167	3.7	0.65
									99		17.0	B	0.50	35.0	0.366	17.0	1.65
													0.50	35.0	0.283	12.7	2.97
								USGS	130	LB - Terminal Island	69.2	CCD	0.10	50.0	0.017	3.9	3.03
									99		61.4	C	0.10	20.0	0.029	9.6	8.25
													0.10	20.0	0.029	6.8	6.17
								CDWR	1041	Maricopa Array #1	115.0	IBB	0.10	20.0	0.005	1.1	1.40
									99		999.9	-	0.10	13.0	0.007	1.7	1.53
													0.10	20.0	0.011	2.4	2.33
								CDWR	1042	Maricopa Array #2	113.0	IBB	0.20	20.0	0.007	0.7	0.22
									99		999.9	-	0.10	20.0	0.009	1.3	1.03
													0.20	15.0	0.009	1.1	0.41
								CDWR	1043	Maricopa Array #3	113.0	IBB	0.20	15.0	0.007	2.9	2.15
									99		999.9	-	0.20	20.0	0.008	2.2	1.85
													0.10	20.0	0.010	2.0	2.16
								CDMG	279	Pacoima Dam	2.8	AMB	0.10	35.0	0.699	56.5	18.25
									02		999.9	-	0.10	35.0	1.226	112.5	35.50
													0.50	35.0	1.160	54.3	11.73
								USGS	262	Palmdale Fire Station	25.4	AQD	-99.				
									99		28.6	B	0.50	35.0	0.121	12.3	2.65
													0.50	35.0	0.151	8.1	1.85
								CDMG	80053	Pasadena - CIT Athenaeum	31.7	CQD	0.50	35.0	0.095	4.5	0.70
									99		25.7	B	0.50	35.0	0.088	6.4	1.36
													0.20	35.0	0.110	13.3	7.78
								USGS	266	Pasadena - Old Seismo Lab	19.1	CGA	0.50	35.0	0.090	4.4	1.40
									99		21.9	-	0.50	35.0	0.089	5.3	0.86
													0.50	35.0	0.202	10.9	2.39
								CDWR	269	Pearblossom Pump	38.9	AGB	0.20	35.0	0.050	2.1	0.95
									99		37.4	B	0.20	35.0	0.102	4.7	1.53
													0.20	35.0	0.136	5.6	1.61
								CDMG	272	Port Hueneme	63.0	BBD	0.50	35.0	0.011	3.0	1.78
									99		62.0	-	0.50	35.0	0.027	6.1	3.50
													0.50	35.0	0.025	3.9	2.65
								CDMG	278	Puddingstone Dam (Abut)	50.4	IVD	0.50	35.0	0.036	1.6	0.51
									99		999.9	-	0.50	35.0	0.074	4.0	0.76
													0.50	35.0	0.065	3.1	0.43

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)									
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)													
0031	Point Mugu 02	1973	0221	1445	5.8	5.9	5.2	0.0	USGS	314 99	San Diego Gas & Electric	214.0 999.9	ABD -	0.10 0.10 0.10	33.0 30.0 30.0	0.003 0.006 0.004	1.0 1.5 1.2	0.90 1.16 1.00									
									USGS	465 99	San Juan Capistrano	104.0 999.9	ABC -	0.50 0.50 0.50	35.0 35.0 35.0	0.021 0.046 0.035	2.0 3.3 3.7	0.67 1.05 0.79									
									SCE	280 99	San Onofre - So Cal Edison	122.0 999.9	ABB -	0.10 0.10 0.20	23.0 20.0 20.0	0.011 0.013 0.016	0.8 1.7 1.8	0.77 0.74 0.63									
									LAFC	104 99	Santa Anita Dam	27.0 999.9	IGA -	0.20 0.20 0.20	35.0 35.0 35.0	0.062 0.151 0.212	3.9 4.7 6.1	1.80 2.30 2.89									
									CDMG	285 99	Santa Felita Dam (Outlet)	27.5 999.9	ABA -	0.10 0.10 0.10	20.0 20.0 13.0	0.065 0.148 0.152	4.1 9.4 6.5	2.36 7.02 3.46									
									CDWR	1027 99	Tehachapi Pump	68.0 999.9	AAA -	0.20 0.20 0.20	35.0 35.0 35.0	0.045 0.053 0.025	1.7 2.0 1.0	0.28 0.37 0.13									
									USGS	282 99	UCSB - Fluid Mech Lab	125.6 999.9	CPD -	0.20 0.20 0.20	30.0 30.0 30.0	0.011 0.017 0.017	1.3 2.7 3.0	0.73 1.41 1.29									
									ACOE	287 99	Upland - San Antonio Dam	58.1 999.9	AAA B	0.50 0.50 0.50	35.0 35.0 35.0	0.032 0.058 0.079	1.3 2.9 3.5	0.54 0.55 0.50									
									CDWR	1102 99	Wheeler Ridge - Ground	81.6 82.0	IBD C	0.10 0.10 0.10	30.0 23.0 23.0	0.014 0.027 0.031	1.4 2.0 1.7	1.46 1.47 1.23									
									ACOE	289 99	Whittier Narrows Dam	45.1 999.9	IHD -	0.10 0.10 0.10	30.0 20.0 20.0	0.032 0.100 0.107	3.7 9.3 9.7	2.61 5.79 5.04									
									USGS	290 99	Wrightwood - 6074 Park Dr	60.3 60.7	BAB B	0.20 0.20 0.20	40.0 30.0 30.0	0.028 0.061 0.044	1.6 2.6 3.3	0.78 0.47 0.68									
									CDMG	272 99	Port Hueneme	25.0* 16.0	BBD C	0.15 0.20 0.20	30.0 25.0 30.0	0.047 0.112 0.083	2.2 14.8 4.6	0.39 2.59 0.80									
									0032	Hollister 00	1974	1128	2301	5.2	5.2	4.5	0.0	CDMG	47379 00	Gilroy Array #1	12.3* 10.0	IFA A	-99. 1.50 1.10	25.0 25.0 25.0	0.105 0.132 0.071	2.7 4.0 3.5	0.13 0.17 0.36
																		USGS	1028 00	Hollister City Hall	11.1* 10.0	CHD C	0.30 0.40 0.40	20.0 15.0 11.0	0.071 0.089 0.177	3.5 6.2 10.3	0.36 0.56 1.25
																		CDMG	1377 00	San Juan Bautista, 24 Polk St	11.4* 8.0	AQD B	1.00 0.80	20.0 20.0	0.046 0.049	1.5 2.2	0.10 0.17

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners									
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)					
														0.40	15.0	0.130	7.3	0.64				
0033	Northern Calif 99	1975	0607	0846	5.2	5.2	5.7	0.0	CDMG	1249	Cape Mendocino, Petrolia	28.9*	IFA	2.00	30.0	0.026	0.8	0.04				
									99	999.9		A	1.50	25.0	0.115	3.1	0.10					
													2.00	20.0	0.179	4.9	0.16					
												USGS	1023	Ferndale City Hall	22.8*	BQD	0.20	15.0	0.239	8.9	1.77	
										99	999.9	-	0.40		15.0	0.173	11.8	1.58				
												0.40	15.0		0.038	2.7	0.28					
												CDMG	1398	Petrolia, General Store	29.9*	IMD	1.00	35.0	0.041	1.8	0.10	
										99	999.9	-	0.45		25.0	0.156	8.6	0.92				
												0.40	30.0		0.131	7.8	0.55					
												CDMG	1277	Shelter Cove, Sta A	59.2*	IBA	-99.					
										99	999.9	-	1.00		20.0	0.032	1.5	0.11				
												1.00	20.0		0.031	1.2	0.07					
												CDMG	1278	Shelter Cove, Sta B	60.2*	IBB	-99.					
										99	999.9	-	1.30		30.0	0.081	2.3	0.10				
												1.50	25.0		0.093	2.8	0.11					
0034	Oroville 01	1975	0801	2020	6.0	5.7	0.0	0.0	CDWR	1051	Oroville Seismograph Station	9.5*	AJA	-99.								
									99	8.0		-	1.00	10.0	0.092	3.7	0.17					
													1.00	10.0	0.072	2.8	0.22					
0035	Oroville 01	1975	0802	2022	5.0	5.1	0.0	0.0	CIT	1545	Oroville Airport	14.6*	ACD	0.30	25.0	0.015	1.1	0.32				
									99	999.9		-	0.20	15.0	0.036	2.5	0.82					
													0.40	25.0	0.015	1.4	0.33					
												CDMG	1546	Up & Down Cafe (OR1)	12.7*	ADD	0.60	30.0	0.021	1.1	0.18	
										99	999.9	-	0.70		25.0	0.034	1.1	0.15				
						0.20	20.0	0.030	2.9	0.72												
0036	Oroville 04	1975	0802	2059	4.4	5.2	0.0	0.0	CIT	1544	Medical Center	11.1*	ABB	0.80	30.0	0.030	1.1	0.83				
									99	999.9		-	0.40	40.0	0.079	3.0	0.32					
													0.35	30.0	0.043	2.2	0.22					
												CIT	1545	Oroville Airport	15.0*	ACD	0.30	40.0	0.025	1.2	0.24	
										99	999.9	-	0.30		30.0	0.020	2.2	0.62				
												0.50	40.0		0.024	1.1	0.91					
												CDMG	1546	Up & Down Cafe (OR1)	12.4*	ADD	0.70	40.0	0.065	1.1	0.14	
										99	999.9	-	0.35		30.0	0.069	1.7	0.36				
												0.40	30.0		0.050	2.5	0.43					
0037	Oroville 01	1975	0808	0700	4.7	4.9	0.0	0.0	CIT	1542	Broadbeck Residence	9.8*	ACC	1.30	40.0	0.073	1.7	0.06				
									99	999.9		-	0.70	30.0	0.168	3.1	0.17					
													0.70	40.0	0.117	3.4	0.22					
												CDMG	1550	Duffy Residence (OR5)	10.9*	ACD	1.00	40.0	0.051	0.7	0.05	
										99	999.9	-	0.50		40.0	0.085	2.0	0.20				
												0.80	40.0		0.061	2.2	0.12					
												CIT	1543	DWR Garage	6.5*	AAA	5.00	40.0	0.106	0.7	0.01	
										99	999.9	-	1.50		50.0	0.141	1.1	0.04				

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners										
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)						
0038	Friuli, Italy 99	1976	0506	2000	6.5	6.2	6.5	0.0	CDMG	1493	Johnson Ranch	10.7*	AAB	3.00	40.0	0.209	1.8	0.02					
									99		999.9	-	2.00	50.0	0.089	1.1	0.02						
													1.00	45.0	0.191	3.9	0.10						
													1.00	40.0	0.095	1.6	0.05						
									CDMG	1496	Nelson Ranch (OR7)	6.7*	ABB	1.50	50.0	0.110	1.3	0.02					
									99		999.9	-	1.00	40.0	0.088	1.3	0.05						
													1.20	50.0	0.114	1.9	0.05						
									CIT	1545	Oroville Airport	11.7*	ACD	0.80	50.0	0.072	1.1	0.07					
									99		999.9	-	0.70	40.0	0.047	1.1	0.06						
													0.35	30.0	0.065	2.4	0.27						
									CDMG	1549	Pacific Heights Rd (OR4)	12.0*	ACD	0.80	40.0	0.042	1.0	0.09					
									99		999.9	-	0.60	40.0	0.065	2.6	0.27						
													1.00	40.0	0.069	2.1	0.11						
									CDMG	1551	Summit Ave (OR6)	8.6*	AAA	1.50	40.0	0.059	0.8	0.02					
									99		999.9	-	1.50	35.0	0.101	2.3	0.08						
													1.30	35.0	0.081	1.2	0.04						
									CDMG	1546	Up & Down Cafe (OR1)	13.3*	ADD	0.70	40.0	0.048	1.2	0.13					
									99		999.9	-	0.50	40.0	0.152	3.9	0.20						
													0.40	40.0	0.101	3.5	0.40						

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)									
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)													
0041	Friuli, Italy 99	1976	0915	0315	0.0	6.1	0.0	0.0	8022	San Rocco	17.9*	ABA	0.40	15.0	0.013	1.8	0.34										
									99		999.9	-	0.20	15.0	0.029	2.3	0.48										
													0.40	20.0	0.072	4.3	0.90										
									8023	Buia	10.8*	ABC	0.50	48.0	0.074	6.5	1.58										
									99		999.9	-	0.50	30.0	0.110	10.2	2.22										
													0.50	33.0	0.091	10.6	1.61										
									8004	Codroipo	36.1*	ADD	0.10	32.0	0.013	4.0	1.74										
									99		999.9	-	0.10	28.0	0.030	2.7	1.21										
													0.10	25.0	0.019	3.7	1.90										
									8014	Forgaria Cornino	13.5*	ABC	0.50	48.0	0.095	5.6	1.35										
									99		999.9	-	0.50	40.0	0.260	9.3	1.07										
													0.20	42.0	0.212	9.7	1.83										
0042	Santa Barbara 03	1978	0813		6.0	5.1	6.0	0.0	USGS	106	Cachuma Dam Toe	36.6*	AAA	0.20	29.0	0.024	1.6	0.40									
										99		999.9	-	0.10	36.0	0.072	6.3	1.26									
														0.20	30.0	0.034	2.6	0.55									
									USGS	283	Santa Barbara Courthouse	14.0*	CQD	0.10	30.0	0.077	3.5	0.83									
										01		0.0	B	0.10	26.0	0.102	7.4	1.80									
														0.10	30.0	0.203	16.3	2.99									
									0043	Tabas, Iran 02	1978	0916		7.4	7.7	7.4	0.0		69	Bajestan	121.2	—	0.05		0.029	5.7	6.16
																			99		999.9	-	0.02	15.0	0.094	7.6	10.77
																							0.02	15.0	0.067	5.7	10.03
																			70	Boshrooyeh	26.1	-C	0.06		0.085	11.6	8.36
																			99		999.9	-	0.04	20.0	0.107	13.7	10.50
																							0.04	20.0	0.089	18.0	18.27
9102	Dayhook	17.0*	ABA	0.10		0.183	12.0	4.97																			
01		999.9	-	0.10		0.328	20.6	12.56																			
				0.10		0.406	26.5	8.75																			
71	Ferdows	94.4	-A	0.04		0.053	7.6	6.78																			
99		999.9	-	0.02	20.0	0.087	5.7	4.61																			
				0.04	20.0	0.108	8.6	9.69																			
72	Kashmar	199.1	—	0.05	20.0	0.026	7.4	6.78																			
99		999.9	-	0.03	20.0	0.034	10.7	10.60																			
				0.02	20.0	0.037	11.4	7.10																			
73	Sodeh	164.5	—	0.02	20.0	0.013	6.1	11.61																			
99		999.9	-	0.02	20.0	0.026	5.6	6.42																			
				0.02	20.0	0.027	4.1	4.91																			
	9101	Tabas	3.0*	ABB	0.05		0.688	45.6	17.04																		
	02		999.9	-	0.05		0.836	97.8	36.92																		
					0.05		0.852	121.4	94.58																		
0044	Coyote Lake	1979	0806	1705	5.7	5.7	5.6	0.0	CDMG	57217	Coyote Lake Dam (SW Abut)	3.2	IFA	0.30	30.0	0.121	6.4	0.67									

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
	00								00		1.6	-	0.30	40.0		0.157	10.8	1.31
													0.20	40.0		0.279	20.3	2.33
									CDMG	47379	9.3	IFA	0.30	40.0		0.072	2.5	0.41
									00		9.1	A	0.30	40.0		0.103	3.4	0.48
													0.25	40.0		0.132	8.3	1.52
									CDMG	47380	7.5	IQD	0.20	50.0		0.166	7.0	1.18
									00		7.4	C	0.20	40.0		0.211	10.9	2.29
													0.20	40.0		0.339	24.9	5.81
									CDMG	47381	6.0	IHD	0.30	40.0		0.160	5.2	1.26
									00		5.3	C	0.20	40.0		0.272	18.7	3.42
													0.15	40.0		0.228	28.8	4.87
									CDMG	57382	4.5	AHD	0.30	40.0		0.387	11.7	2.47
									00		3.7	C	0.20	25.0		0.248	23.1	2.60
													0.12	25.0		0.271	26.3	4.78
									CDMG	57383	3.1	IKB	0.10	30.0		0.146	12.8	3.92
									00		1.2	B	0.08	25.0		0.434	49.2	7.77
													0.20	40.0		0.316	24.5	3.85
									CDMG	57191	31.2	IFC	0.50	20.0		0.027	1.3	0.13
									00		30.0	B	0.30	15.0		0.039	2.2	0.27
													0.30	15.0		0.050	4.8	0.48
									CDMG	1377	15.6	AQD	0.20	20.0		0.111	4.7	0.95
									00		17.9	B	0.20	20.0		0.108	7.6	0.95
													0.20	20.0		0.107	7.5	1.02
									CDMG	1492	17.2	DQD	0.30	50.0		0.060	2.3	0.21
									00		19.2	B	0.60	60.0		0.097	5.9	0.55
													0.23	60.0		0.124	7.6	1.07
									CDMG	1492	17.2	DQD	0.30	50.0		0.036	2.2	0.23
									00		19.2	B	0.30	50.0		0.073	5.6	0.77
													0.25	60.0		0.114	7.4	1.08
0045	Imperial Valley 00	1979	1015	2316	6.5	6.6	6.9	0.0	UNAMUCSD	6616	8.5	I-D	0.05			0.142	5.6	2.31
									00		1.4	C	0.05			0.327	42.8	10.10
													0.05			0.260	24.9	3.81
									UNAM/UCSD	6618	12.9	IQD	0.20			0.835	11.1	5.17
									00		999.9	-	0.05			0.370	35.6	10.02
													0.05			0.221	42.4	11.70
									USGS	5054	2.5	AQD	0.10	40.0		0.425	12.2	4.02
									00		2.6	C	0.10	40.0		0.588	45.2	16.78
													0.10	40.0		0.775	45.9	14.89
									USGS	5060	8.5	AQD	0.10	40.0		0.146	8.4	3.49
									00		8.5	C	0.10	40.0		0.160	35.9	22.44
													0.10	40.0		0.220	38.9	13.46
									USGS	5053	10.6	AQD	0.10	40.0		0.187	6.7	2.49
									00		10.6	C	0.10	40.0		0.275	21.2	9.02
													0.20	40.0		0.202	16.0	9.20
									USGS	5061	23.8	BQD	0.10	40.0		0.055	3.9	2.76

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
									00		23.0	C	0.10	40.0		0.128	15.4	10.91
													0.10	40.0		0.078	13.3	6.22
									UNAM/UCSD 6604	Cerro Prieto	26.5	AVA	0.10			0.212	6.8	3.29
									00		23.5	B	0.10			0.169	11.6	4.25
													0.10			0.157	18.6	7.95
									UNAM/UCSD 6621	Chihuahua	28.7	IQD	0.05			0.218	5.1	1.28
									00		17.7	C	0.05			0.270	24.9	9.08
													0.05			0.254	30.1	12.89
									USGS 5066	Coachella Canal #4	49.3	AQD	0.20	40.0		0.038	3.6	0.66
									00		49.0	C	0.20	40.0		0.115	12.5	2.33
													0.20	40.0		0.128	15.6	2.95
									UNAM/UCSD 6622	Compuertas	32.6	IQD	0.20			0.075	2.9	0.98
									00		23.2	C	0.20			0.186	13.9	2.92
													0.20			0.147	9.5	2.49
									UNAM/UCSD 6617	Cucapah	23.6	IQD	0.05			0.140	3.1	1.37
									00		12.9	C	0.05			0.309	36.3	10.44
													-99.					
									UNAM/UCSD 6605	Delta	43.6	IQD	0.05			0.145	14.8	8.62
									00		32.7	C	0.05			0.238	26.0	12.06
													0.05			0.351	33.0	19.02
									CDMG 5154	EC County Center FF	7.6	IDD	0.10	50.0		0.246	18.1	9.70
									00		7.6	C	0.10	40.0		0.213	37.5	15.98
													0.10	35.0		0.235	68.8	39.35
									CDMG 5155	EC Meloland Overpass FF	0.5	IDD	0.10	50.0		0.248	28.9	8.36
									00		0.5	C	0.10	40.0		0.314	71.7	25.53
													0.10	50.0		0.296	90.5	31.71
									USGS 5056	El Centro Array #1	15.5	AQD	0.10	40.0		0.056	3.8	2.14
									00		22.0	C	0.10	40.0		0.139	16.0	9.96
													0.10	40.0		0.134	10.7	6.97
									USGS 5115	El Centro Array #2	10.4	IQD	0.10	40.0		0.110	7.6	5.14
									00		16.0	C	0.10	40.0		0.315	31.5	14.34
													-99.					
									USGS 5057	El Centro Array #3	9.3	AQD	0.10	40.0		0.127	8.7	4.70
									00		999.9	D	0.10	40.0		0.266	46.8	18.92
													0.10	40.0		0.221	39.9	23.31
									USGS 955	El Centro Array #4	4.2	IQD	0.10	40.0		0.248	16.0	10.66
									00		6.8	C	0.10	40.0		0.485	37.4	20.23
													0.10	40.0		0.360	76.6	59.02
									USGS 952	El Centro Array #5	1.0	IQD	0.10	40.0		0.537	38.5	19.69
									00		4.0	C	0.10	40.0		0.519	46.9	35.35
													0.10	40.0		0.379	90.5	63.03
									CDMG 942	El Centro Array #6	1.0	IQD	0.20	40.0		1.655	57.5	26.41
									00		1.3	C	0.10	40.0		0.410	64.9	27.69
													0.10	40.0		0.439	109.8	65.89
									USGS 5028	El Centro Array #7	0.6	AQD	0.10	40.0		0.544	26.4	9.32

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
									00		0.6	C	0.10	40.0	0.338	47.6	24.68	
													0.10	40.0	0.463	109.3	44.74	
								CDMG	958	El Centro Array #8	3.8	AQD	0.10	40.0	0.439	22.3	11.87	
									00		3.8	C	0.10	40.0	0.602	54.3	32.32	
													0.10	40.0	0.454	49.1	35.59	
								USGS	412	El Centro Array #10	8.6	AQD	0.10	40.0	0.105	8.8	6.90	
									00		8.5	C	0.10	40.0	0.171	47.5	31.10	
													0.10	40.0	0.224	41.0	19.38	
								USGS	5058	El Centro Array #11	12.6	AQD	0.10	40.0	0.140	11.1	6.82	
									00		12.6	C	0.20	40.0	0.364	34.5	16.07	
													0.10	40.0	0.380	42.1	18.59	
								USGS	931	El Centro Array #12	18.2	IQD	0.10	40.0	0.066	6.7	5.31	
									00		18.0	C	0.10	40.0	0.143	17.6	11.30	
													0.10	40.0	0.116	21.8	12.06	
								USGS	5059	El Centro Array #13	21.9	AQD	0.20	40.0	0.046	3.2	1.67	
									00		22.0	C	0.20	40.0	0.117	14.7	7.33	
													0.20	40.0	0.139	13.0	5.84	
								USGS	5165	El Centro Differential Array	5.3	IQD	0.10	40.0	0.707	20.7	11.55	
									00		5.1	C	0.10	40.0	0.352	71.2	45.80	
													0.10	40.0	0.480	40.8	14.04	
								USGS	5055	Holtville Post Office	7.5	AQD	0.10	40.0	0.230	9.9	5.69	
									00		7.5	C	0.10	40.0	0.253	48.8	31.54	
													0.10	40.0	0.221	49.8	31.96	
								CDMG	724	Niland Fire Station	35.9	AQD	0.10	40.0	0.034	3.8	2.04	
									00		36.0	C	0.10	30.0	0.109	11.9	6.88	
													0.10	40.0	0.069	8.3	5.26	
								USGS	5051	Parachute Test Site	14.2	AQD	0.10	40.0	0.159	6.8	4.76	
									00		14.0	B	0.10	40.0	0.111	17.8	12.35	
													0.10	40.0	0.204	16.1	9.94	
								USGS	5052	Plaster City	31.7	AQD	0.10	40.0	0.026	2.4	0.98	
									00		32.0	C	0.10	40.0	0.042	3.2	1.34	
													0.10	40.0	0.057	5.4	1.94	
								UNAM/UCSD	6619	SAHOP Casa Flores	11.1	I-C	0.20		0.379	9.2	1.53	
									00		8.4	C	0.20		0.287	19.6	2.71	
													0.20		0.506	30.9	5.64	
								USGS	286	Superstition Mtn Camera	26.0	AGA	0.10	40.0	0.077	2.3	1.14	
									00		26.0	B	0.10	40.0	0.109	5.2	2.21	
													0.10	40.0	0.195	8.8	2.78	
								UNAM/UCSD	6610	Victoria	54.1	IQD	0.05		0.059	1.6	0.68	
									00		43.5	C	0.05		0.122	6.4	2.09	
													0.20		0.167	8.3	1.05	
								CDMG	5169	Westmorland Fire Sta	15.1	ADD	0.10	40.0	0.082	6.8	2.58	
									00		15.0	C	0.10	40.0	0.074	21.2	16.59	
													0.10	40.0	0.110	21.9	10.00	
0046	Imperial Valley	1979	1015	2319	5.2	5.2	0.0	0.0	USGS	5054	Bonds Corner	15.6*	AQD	3.00	35.0	0.052	0.9	0.02

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
00									00		999.9	C	0.80	30.0	0.084	3.6	0.34
									USGS	5060	27.0*	AQD	0.30	30.0	0.100	8.2	1.42
										00	999.9	C	1.00	40.0	0.026	0.6	0.02
													0.80	30.0	0.034	2.0	0.16
													1.00	30.0	0.067	2.4	0.12
									USGS	5053	15.0*	AQD	0.90	40.0	0.035	0.9	0.05
										00	999.9	C	0.45	30.0	0.116	8.0	0.87
													0.40	35.0	0.068	5.2	0.51
										6605	52.1*	IQD	1.00	25.0	0.023	0.7	0.04
										00	999.9	C	0.80	25.0	0.059	2.6	0.21
													0.40	30.0	0.112	5.5	0.84
									USGS	5056	26.1*	AQD	0.80	40.0	0.027	0.4	0.03
										00	999.9	C	0.80	30.0	0.080	3.8	0.39
													0.70	30.0	0.029	1.1	0.12
									USGS	5115	20.3*	IQD	0.70	40.0	0.032	0.9	0.06
										00	999.9	C	0.60	25.0	0.150	9.5	0.95
													1.00	40.0	0.072	3.3	0.23
									USGS	5057	17.9*	AQD	0.60	40.0	0.031	0.6	0.07
										00	999.9	D	0.50	33.0	0.179	9.5	0.97
													0.80	40.0	0.112	4.2	0.30
									USGS	955	14.4*	IQD	0.60	40.0	0.097	1.2	0.13
										00	999.9	C	0.50	40.0	0.262	8.8	0.64
													0.45	35.0	0.157	9.6	0.65
									USGS	952	13.8*	IQD	0.50	50.0	0.079	0.8	0.07
										00	999.9	C	0.70	35.0	0.238	10.7	0.75
													0.60	35.0	0.239	13.3	1.06
									CDMG	942	13.1*	IQD	0.40	50.0	0.080	1.7	0.10
										00	999.9	C	0.60	30.0	0.189	12.1	1.15
													0.35	30.0	0.366	20.8	2.83
									USGS	5028	13.1*	AQD	0.70	50.0	0.060	0.8	0.06
										00	999.9	C	0.60	40.0	0.132	5.0	0.52
													0.40	40.0	0.192	12.2	1.00
									CDMG	958	13.6*	AQD	0.60	50.0	0.067	1.1	0.08
										00	999.9	C	0.70	45.0	0.120	5.6	0.35
													0.60	45.0	0.145	9.1	0.87
									USGS	412	15.1*	AQD	0.60	35.0	0.021	0.4	0.06
										00	999.9	C	1.00	30.0	0.066	3.2	0.25
													0.50	30.0	0.037	2.9	0.44
									USGS	5058	17.2*	AQD	0.60	40.0	0.055	1.3	0.08
										00	999.9	C	0.70	35.0	0.124	7.3	0.74
													0.45	30.0	0.173	11.1	1.02
									USGS	5165	13.3*	IQD	0.60	40.0	0.097	1.6	0.08
										00	999.9	C	0.60	30.0	0.169	10.1	0.82
													0.70	30.0	0.135	6.7	0.41
									USGS	5055	12.2*	AQD	0.80	40.0	0.044	1.0	0.08

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3) Description No. H/F	Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH				HP (hz)	LP (hz)				
									00	999.9	C	0.60 0.50	30.0 30.0	0.127 0.211	7.3 15.4	0.56 2.14	
0047	Imperial Valley 00	1979	1016	0658	0.0	5.5	0.0	0.0	CDMG 5169 Westmorland Fire Sta 00	11.2* 999.9	ADD C	1.00 0.25 0.70	50.0 40.0 40.0	0.115 0.171 0.089	2.0 11.0 4.7	0.15 2.83 0.62	
0048	Livermore 00	1980	0124	1900	5.8	5.8	5.8	0.0	CDMG 67070 Antioch - 510 G St 00	20.3 20.8	ACD B	0.20 0.20 0.20	20.0 13.0 13.0	0.012 0.051 0.023	1.5 5.1 2.6	0.47 0.80 0.72	
									CDWR 1265 Del Valle Dam (Toe) 00	12.9 999.9	ABB -	0.30 0.10 0.15	30.0 25.0 20.0	0.083 0.125 0.229	4.2 9.3 20.5	1.00 3.15 3.71	
									CDMG 57064 Fremont - Mission San Jose 00	29.8 33.1	AMB B	0.13 0.30 0.30	13.0 13.0 20.0	0.027 0.044 0.055	2.3 4.4 3.9	0.55 0.85 0.93	
									CDMG 58219 APEEL 3E Hayward CSUH 00	31.0 40.3	BKA B	0.23 0.20 0.20	25.0 25.0 25.0	0.020 0.072 0.057	1.1 4.1 2.7	0.20 0.75 0.40	
									CDMG 57134 San Ramon Fire Station 00	21.7 16.7	ABB C	0.30 0.15 0.20	20.0 15.0 15.0	0.016 0.058 0.040	2.0 3.3 4.0	0.40 1.00 1.24	
									CDMG 57187 San Ramon - Eastman Kodak 00	17.6 15.7	ABB C	0.40 0.08 0.20	30.0 20.0 20.0	0.042 0.154 0.076	2.8 18.9 6.1	0.45 6.13 1.69	
									CDMG 57063 Tracy - Sewage Treatm Plant 00	37.3 28.5	BQC C	0.20 0.15 0.08	20.0 20.0 15.0	0.021 0.050 0.073	3.1 7.5 7.6	0.98 2.35 1.81	
0049	Livermore 00	1980	0127	0233	5.4	5.4	5.5	0.0	CDMG 67070 Antioch - 510 G St 00	30.9 30.9	ACD B	0.30 0.20 0.30	15.0 15.0 12.0	0.015 0.112 0.050	0.8 5.8 2.7	0.11 0.62 0.32	
									CDWR 1265 Del Valle Dam (Toe) 00	12.9 999.9	ABB -	0.30 0.40 0.30	30.0 25.0 20.0	0.028 0.043 0.041	0.8 1.8 2.8	0.13 0.14 0.33	
									CDMG 57064 Fremont - Mission San Jose 00	29.8 29.0	AMB B	0.20 0.30 0.25	15.0 15.0 12.0	0.017 0.035 0.038	1.5 4.7 3.3	0.23 0.79 0.52	
									CDMG 58219 APEEL 3E Hayward CSUH 00	31.0 37.8	BKA B	0.60 0.30 0.15	25.0 20.0 20.0	0.014 0.053 0.028	0.9 4.5 1.4	0.09 0.58 0.30	
									CDMG 57T01 Livermore - Fagundas Ranch 00	3.6 4.0	ABB C	0.30 0.30 0.30	30.0 25.0 20.0	0.098 0.258 0.233	2.5 9.6 11.4	0.17 0.55 1.18	
									CDMG 57T02 Livermore - Morgan Terr Park 00	8.0 10.1	ABA B	0.40 0.25	30.0 30.0	0.078 0.198	4.1 11.7	0.39 1.02	

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners																							
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)																			
0054	Mammoth Lakes 00	1980	0525	2035	5.7	5.7 (5.5)	0.0	0.0	CDMG	54214 00	Long Valley Dam (Downst)	19.7* 999.9	IVA -	0.30 0.15 0.20	40.0 40.0 35.0	0.078 0.107 0.070	4.4 5.9 5.5	0.42 1.21 1.33																		
									CDMG	54214 00	Long Valley Dam (L Abut)	19.7* 999.9	IVA -	0.40 0.35 0.20	50.0 50.0 50.0	0.068 0.104 0.077	4.0 6.6 5.4	0.45 1.06 1.69																		
									CDMG	54214 00	Long Valley Dam (Upr L Abut)	19.7* 999.9	IVA -	0.35 0.20 0.10	35.0 40.0 40.0	0.119 0.484 0.188	4.3 14.2 10.8	0.53 1.77 3.28																		
									CDMG	54099 00	Convict Creek	3.0* 999.9	AQD -	0.20 0.20 0.20	45.0 35.0 35.0	0.345 0.380 0.432	6.2 13.3 21.0	0.52 1.16 2.31																		
									CDMG	54214 00	Long Valley Dam (Downst)	14.4* 999.9	IVA -	1.00 0.50 0.30	40.0 30.0 30.0	0.058 0.089 0.046	2.1 5.0 2.3	0.12 0.59 0.35																		
									CDMG	54214 00	Long Valley Dam (L Abut)	14.4* 999.9	IVA -	0.30 0.50 0.30	40.0 40.0 40.0	0.141 0.231 0.185	5.0 18.3 8.0	0.36 1.56 0.93																		
									CDMG	54214 00	Long Valley Dam (Upr L Abut)	14.4* 999.9	IVA -	0.30 0.50 0.40	35.0 40.0 40.0	0.146 0.245 0.195	5.0 18.5 8.0	0.36 1.56 0.82																		
									CDMG	54099 00	Convict Creek	10.5* 999.9	AQD -	0.50 0.50 0.20	40.0 30.0 31.0	0.050 0.133 0.099	3.8 7.8 3.8	0.46 0.82 0.41																		
									CDMG	54214 00	Long Valley Dam (Upr L Abut)	17.5* 999.9	IVA -	0.50 0.50 0.50	30.0 31.0 23.0	0.027 0.110 0.071	1.2 6.0 6.3	0.22 0.63 0.65																		
									0056	Mammoth Lakes 03	1980	0527	1451	6.0	6.2	6.0	0.0	CDMG	54100 00	Benton	48.6* 999.9	AQD -	0.50 0.50 0.50	40.0 38.0 33.0	0.064 0.109 0.175	3.1 7.0 11.2	0.52 0.98 1.18									
																		CDMG	54424 00	Bishop - Paradise Lodge	43.7* 999.9	CAA -	0.20 0.20 0.20	50.0 40.0 40.0	0.084 0.091 0.114	3.0 5.5 5.3	0.77 1.48 1.41									
																		CDMG	54099 00	Convict Creek	18.6* 999.9	AQD -	0.10 0.10 0.10	50.0 40.0 40.0	0.188 0.266 0.316	9.6 19.1 16.2	1.62 1.74 3.19									
																		CDMG	54214 00	Long Valley Dam (Upr L Abut)	20.0* 999.9	IVA -	0.50 0.50 0.20	43.0 40.0 51.0	0.314 0.921 0.408	11.7 28.9 33.9	1.08 3.17 6.41									
																		0057	Mammoth Lakes 00	1980	0527	1901	4.9	5.0	0.0	0.0	USGS	43 00	Fish & Game (FIS)	5.5* 999.9	IQD -	0.20 0.20 0.11	50.0 50.0 40.0	0.038 0.103 0.098	1.7 4.2 5.2	0.21 0.37 0.73
																											USC	3	Green Church	4.7* 999.9	IQD -	0.80 0.80 0.80	30.0 30.0 30.0	0.079 0.079 0.079	2.2 2.2 2.2	0.19 0.19 0.19

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)		
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)						
0058	Mammoth Lakes 00	1980	0531	1516	4.9	5.1	0.0	0.0	USGS	00		999.9	-	0.25	25.0	0.167	10.7	1.05		
														0.30	30.0	0.170	12.1	1.06		
											USC	35	Long Valley Fire Sta	4.3*	ACC	0.70	20.0	0.018	1.0	0.10
												00		999.9	-	0.70	25.0	0.022	1.7	0.24
															0.50	20.0	0.031	1.6	0.15	
											USC	36	Mammoth Elem School	8.7*	AAB	0.60	20.0	0.015	1.3	0.19
												00		999.9	-	0.80	20.0	0.050	2.8	0.26
															0.60	15.0	0.078	5.0	0.30	
											USC	34	USC Cash Baugh Ranch	9.9*	AQD	0.45	20.0	0.025	1.9	0.22
												00		999.9	-	0.50	25.0	0.031	3.3	0.46
															0.40	20.0	0.038	2.9	0.36	
											USC	37	USC McGee Creek Inn	1.8*	AAD	-99.				
												00		999.9	-	0.70	30.0	0.325	8.6	0.53
															0.90	25.0	0.131	5.0	0.33	
											USGS	41	Cashbaugh (CBR)	11.8*	IQD	0.40	80.0	0.093	4.1	0.22
												00		999.9	-	0.10	60.0	0.106	2.6	0.28
															0.20	60.0	0.134	6.7	0.40	
											USGS	42	Convict Lakes (CON)	8.7*	IQB	1.00	70.0	0.114	2.0	0.12
												00		999.9	-	0.80	60.0	0.196	4.0	0.29
					0.70	70.0	0.206	6.5	0.44											
	USGS	43	Fish & Game (FIS)	7.7*	IQD	0.60	60.0	0.081	3.3	0.27										
		00		999.9	-	0.50	60.0	0.281	9.5	0.52										
					0.30	50.0	0.145	10.2	1.19											
	USGS	44	Hot Creek (HCF)	9.9*	IQD	0.35	100.0	0.049	1.8	0.20										
		00		999.9	-	-99.														
					-99.															
	USC	35	Long Valley Fire Sta	8.9*	AAC	0.80	20.0	0.019	0.7	0.06										
		00		999.9	-	0.60	20.0	0.026	1.2	0.17										
					0.50	20.0	0.031	1.5	0.12											
	USC	36	Mammoth Elem School	7.3*	AAB	0.45	30.0	0.045	1.5	0.29										
		00		999.9	-	0.30	15.0	0.099	6.1	0.57										
					0.40	20.0	0.091	6.1	0.51											
	USC	40	USC Convict Lakes	9.1*	AAB	0.30	40.0	0.050	1.5	0.16										
		00		999.9	-	0.50	30.0	0.164	6.0	0.48										
					0.80	30.0	0.141	2.9	0.20											
	USC	37	USC McGee Creek Inn	7.4*	AAD	0.50	30.0	0.179	3.6	0.12										
		00		999.9	-	1.00	20.0	0.053	13.4	0.44										
					0.60	30.0	0.184	5.5	0.28											
0059	Victoria, Mexico 00	1980	0609	0328	0.0	6.1	6.4	0.0	UNAMUCSD	6604	Cerro Prieto	34.8*	AVA	0.20	62.5	0.304	12.1	4.9		
										0	0	999.9	B	0.20	62.5	0.621	31.6	13.2		
														0.20	62.5	0.587	19.9	9.4		

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners															
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)											
0060	Mammoth Lakes 00	1980	0611	0441	0.0	5.0	0.0	0.0	USGS	UN	AM/UCSD	6617 00	Cucapah	41.9* 999.9	IQD C	0.20 0.20	49.0 44.0	0.067 0.092	10.9 13.1	5.1 5.6								
										UN	AM/UCSD	6619 00	SAHOP Casa Flores	58.3* 999.9	I-C C	0.50 0.20	62.5 28.0	0.047 0.101	2.4 7.8	0.5 2.6								
										UN	AM/UCSD	6624 00	Victoria Hospital Sotano	62.6* 999.9	-D -	0.20 0.50	27.0 62.5	0.068 0.024	9.0 1.9	2.1 0.6								
																0.20 0.20	26.0 62.5	0.045 0.032	5.2 5.3	2.5 1.7								

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)							
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)				LP (hz)						
0062	Taiwan SMART1(5) 02	1981	0129		0.0	6.3	5.7	0.0	25	SMART1 C00	21.0	IZD	0.10	40.0	0.156	11.2	11.20						
													99	999.9	-	0.20	25.0	0.043	1.7	0.40			
																0.50	25.0	0.096	6.0	0.91			
																0.20	25.0	0.114	13.4	1.93			
													26	SMART1 I06	21.0	IZD	0.50	25.0	0.032	1.3	0.28		
																	99	999.9	-	0.50	25.0	0.090	4.2
																0.50	25.0	0.077	9.8	1.50			
													27	SMART1 I12	21.0	IZD	0.20	25.0	0.060	2.0	0.46		
																	99	999.9	-	0.10	25.0	0.140	5.1
																0.10	25.0	0.113	12.5	2.14			
													28	SMART1 M01	21.0	IZD	0.10	25.0	0.095	2.4	0.35		
																	99	999.9	-	0.10	25.0	0.082	4.8
																0.10	25.0	0.178	15.9	2.19			
													29	SMART1 M07	21.0	IZD	0.20	25.0	0.050	1.5	0.34		
																	99	999.9	-	0.10	25.0	0.111	5.6
																0.10	25.0	0.109	10.9	1.74			
30	SMART1 O01	21.0	IZD	0.20	25.0	0.032	1.3	0.35															
				99	999.9	-	0.20	25.0	0.089	6.4	0.91												
			0.20	25.0	0.115	13.7	2.23																
31	SMART1 O07	21.0	IZD	0.20	25.0	0.028	1.9	0.42															
				99	999.9	-	0.10	25.0	0.086	6.9	0.92												
			0.20	25.0	0.080	11.7	2.18																
0063	Westmorland 00	1981	0426	1209	5.8	5.6	0.0	0.0	USGS	5060	Brawley Airport	22.0*	AQD	0.60	40.0	0.101	2.2	0.23					
														99	999.9	C	0.15	40.0	0.169	12.7	3.09		
																	0.70	33.0	0.171	5.8	0.48		
														CDMG	724	Niland Fire Station	19.4*	AQD	0.25	40.0	0.126	2.9	0.47
																			99	999.9	C	0.30	33.0
																	0.30	33.0	0.176	6.6	0.80		
														USGS	5051	Parachute Test Site	24.1*	AQD	0.35	35.0	0.157	11.2	1.78
																			99	999.9	B	0.10	30.0
																	0.10	33.0	0.155	26.6	12.97		
														USGS	5062	Salton Sea Wildlife Ref.	10.1*	AQD	0.25	50.0	0.214	4.8	1.08
																			99	999.9	D	0.07	33.0
																	0.08	33.0	0.176	12.3	2.33		
														USGS	286	Superstition Mtn Camera	26.5*	AGA	0.70	35.0	0.045	1.3	0.09
																			99	999.9	B	0.70	30.0
																	0.70	30.0	0.116	5.0	0.49		
														CDMG	5169	Westmorland Fire Sta	13.3*	ADD	0.90	40.0	0.838	10.4	0.46
99	999.9	C	0.08	40.0	0.368	48.7	10.61																
			0.05	40.0	0.496	34.4	10.89																
0064	Mammoth Lakes 99	1983	0107	0138	0.0	5.2	0.0	0.0	CDMG	54099	Convict Creek	9.5*	AQD	0.20	40.0	0.097	7.9	1.65					
														99	999.9	-	0.15	30.0	0.165	14.4	2.05		
																	0.15	30.0	0.153	18.7	2.88		

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners				
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F	HP (hz)			LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)	
0065	Mammoth Lakes 99	1983	0107	0324	0.0	5.4	0.0	0.0	CDMG	54099	Convict Creek	10.8* 999.9	AQD -	0.30 0.40 0.20	40.0 30.0 30.0	0.073 0.150 0.101	5.7 8.4 7.1	0.75 0.97 1.50
0066	Coalinga 03	1983	0502	2342	6.4	6.7	6.5	0.0	CDMG	46314	Cantua Creek School	25.5 999.9	AHD -	0.20 0.20 0.20	26.0 23.0 23.0	0.094 0.227 0.281	5.1 23.6 25.8	1.86 5.83 3.71
									CDMG	36452	Parkfield - Cholame 1E	41.6 999.9	IHD -	0.50 0.20 0.20	30.0 20.0 20.0	0.059 0.090 0.089	6.6 10.8 15.2	1.82 2.66 2.64
									CDMG	36230	Parkfield - Cholame 2E	40.5 999.9	IJB -	0.50 0.50 0.20	26.0 23.0 22.0	0.017 0.026 0.037	2.3 2.9 5.4	0.52 0.62 1.40
									CDMG	36228	Parkfield - Cholame 2WA	42.8 999.9	IHD -	0.20 0.20 0.20	23.0 22.0 26.0	0.044 0.109 0.114	5.1 11.3 9.6	1.39 2.60 1.79
									CDMG	36450	Parkfield - Cholame 3E	38.4 999.9	IMA -	0.20 0.20 0.20	26.0 23.0 22.0	0.024 0.044 0.056	3.0 4.4 6.5	0.60 1.61 1.75
									CDMG	36410	Parkfield - Cholame 3W	43.9 999.9	IHC -	0.20 0.20 0.20	27.0 21.0 24.0	0.034 0.098 0.084	4.5 7.6 8.3	1.46 1.86 1.41
									CDMG	36412	Parkfield - Cholame 4AW	46.0 999.9	IHC -	0.50 0.20 0.20	33.0 21.0 20.0	0.022 0.047 0.078	2.0 5.0 8.0	0.50 0.90 1.32
									CDMG	36411	Parkfield - Cholame 4W	44.7 999.9	IHC -	0.20 0.20 0.20	30.0 21.0 23.0	0.041 0.136 0.136	3.5 11.3 9.1	0.87 1.79 1.42
									CDMG	36227	Parkfield - Cholame 5W	47.3 999.9	IHC C	0.50 0.20 0.20	30.0 22.0 22.0	0.034 0.147 0.131	2.3 10.8 10.0	1.14 1.07 1.28
									CDMG	36451	Parkfield - Cholame 6W	49.0 999.9	IHC -	0.20 0.50 0.20	30.0 21.0 28.0	0.037 0.126 0.102	3.2 11.0 9.9	0.62 1.34 1.26
									CDMG	36226	Parkfield - Cholame 8W	50.7 999.9	IQD C	0.20 0.20 0.50	27.0 23.0 21.0	0.024 0.098 0.100	3.3 8.6 8.0	0.90 1.53 1.25
									CDMG	36229	Parkfield - Cholame 12W	55.2 999.9	IQD -	0.20 0.20 0.20	30.0 23.0 21.0	0.023 0.040 0.053	3.0 4.2 5.5	1.08 1.01 1.57
									CDMG	36407	Parkfield - Fault Zone 1	40.4 999.9	IHD -	0.20 0.20 0.20	31.0 20.0 21.0	0.040 0.194 0.111	8.6 23.3 17.8	2.45 7.82 4.79
									CDMG	36413	Parkfield - Fault Zone 2	37.9 999.9	IHD -	0.50 0.20	33.0 22.0	0.039 0.116	3.8 22.7	0.94 6.05

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									CDMG	36408 Parkfield - Fault Zone 3	36.4	IHD	0.20	25.0	0.133	19.7	4.40
									99		999.9	-	0.10	31.0	0.049	6.0	2.32
													0.10	27.0	0.140	13.7	4.76
													0.10	22.0	0.164	24.5	4.94
									CDMG	36414 Parkfield - Fault Zone 4	34.3	IPB	0.20	30.0	0.046	6.2	2.29
									99		999.9	-	0.20	22.0	0.067	12.6	3.36
													0.20	28.0	0.120	20.4	4.43
									CDMG	36454 Parkfield - Fault Zone 6	32.8	IPB	0.20	31.0	0.026	5.0	1.74
									99		999.9	-	0.20	24.0	0.055	9.1	3.85
													0.20	24.0	0.056	11.6	3.19
									CDMG	36431 Parkfield - Fault Zone 7	31.0	IQC	0.20	31.0	0.054	7.8	1.88
									99		999.9	-	0.20	30.0	0.122	21.1	7.34
													0.20	30.0	0.119	14.9	3.36
									CDMG	36449 Parkfield - Fault Zone 8	29.6	IMB	0.20	29.0	0.054	4.9	1.66
									99		999.9	-	0.20	21.0	0.131	17.3	4.21
													0.20	27.0	0.116	14.2	1.71
									CDMG	36443 Parkfield - Fault Zone 9	31.9	IPB	0.20	30.0	0.026	3.8	1.61
									99		999.9	-	0.20	23.0	0.057	9.4	2.91
													0.20	28.0	0.050	8.9	2.46
									CDMG	36444 Parkfield - Fault Zone 10	30.4	IQD	0.20	26.0	0.043	5.8	2.57
									99		999.9	-	0.20	24.0	0.073	15.3	7.05
													0.20	21.0	0.131	16.1	3.15
									CDMG	36453 Parkfield - Fault Zone 11	28.4	IMB	0.20	28.0	0.042	4.8	1.80
									99		999.9	-	0.20	21.0	0.097	11.9	2.35
													0.20	28.0	0.087	6.6	1.83
									CDMG	36138 Parkfield - Fault Zone 12	29.5	IHC	0.20	27.0	0.070	7.9	2.10
									99		999.9	-	0.20	20.0	0.110	12.1	3.26
													0.20	20.0	0.112	14.6	5.69
									CDMG	36456 Parkfield - Fault Zone 14	29.9	IHC	0.10	30.0	0.097	11.4	4.13
									99		999.9	-	0.20	23.0	0.282	40.9	8.10
													0.10	23.0	0.274	28.3	5.10
									CDMG	36445 Parkfield - Fault Zone 15	29.9	IQB	0.20	24.0	0.084	10.4	2.08
									99		999.9	-	0.20	20.0	0.168	21.2	4.91
													0.20	22.0	0.117	14.1	2.94
									CDMG	36457 Parkfield - Fault Zone 16	28.1	IQC	0.20	30.0	0.061	6.5	1.92
									99		999.9	-	0.20	26.0	0.195	17.7	3.48
													0.20	27.0	0.122	12.0	1.83
									CDMG	36415 Parkfield - Gold Hill 1W	46.5	IHD	0.20	30.0	0.035	4.7	1.53
									99		999.9	-	0.20	24.0	0.119	16.7	4.54
													0.20	22.0	0.065	10.1	2.57
									CDMG	36421 Parkfield - Gold Hill 2E	32.3	IQD	0.20	32.0	0.035	3.3	0.90
									99		999.9	-	0.20	30.0	0.072	6.5	1.73
													0.20	30.0	0.076	7.6	1.40
									CDMG	36416 Parkfield - Gold Hill 2W	36.6	IPB	0.20	32.0	0.036	4.4	1.58
									99		999.9	-	0.20	21.0	0.083	11.4	3.72

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners						
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)	
									CDMG	36439	Parkfield - Gold Hill 3E	29.2	IQD	0.20	20.0	0.074	11.7	2.64
									99			999.9	-	0.20	30.0	0.054	8.4	1.50
														0.20	26.0	0.094	11.0	2.87
														0.20	27.0	0.072	6.4	1.56
									CDMG	36420	Parkfield - Gold Hill 3W	38.8	IPB	0.20	36.0	0.067	7.5	1.77
									99			999.9	-	0.20	30.0	0.137	11.0	2.76
														0.20	30.0	0.122	9.0	1.74
									CDMG	36433	Parkfield - Gold Hill 4W	41.0	IPB	0.20	30.0	0.029	4.9	1.53
									99			999.9	-	0.20	31.0	0.056	8.1	2.28
														0.20	30.0	0.097	6.3	1.86
									CDMG	36434	Parkfield - Gold Hill 5W	43.7	IPB	0.20	30.0	0.034	3.9	1.53
									99			999.9	-	0.20	26.0	0.073	8.5	2.62
														0.20	30.0	0.054	5.9	1.55
									CDMG	36432	Parkfield - Gold Hill 6W	48.0	IPC	0.20	30.0	0.037	3.2	0.80
									99			999.9	-	0.20	30.0	0.059	8.2	1.55
														0.20	30.0	0.069	7.4	1.21
									CDMG	36422	Parkfield - Stone Corral 2E	34.4	IMA	0.20	35.0	0.033	4.0	1.65
									99			999.9	-	0.20	25.0	0.061	8.1	2.65
														0.20	30.0	0.095	7.1	1.75
									CDMG	36437	Parkfield - Stone Corral 3E	31.8	IMA	0.20	30.0	0.033	3.6	1.06
									99			999.9	-	0.20	23.0	0.151	8.7	2.92
														0.20	30.0	0.106	8.1	1.39
									CDMG	36438	Parkfield - Stone Corral 4E	29.6	IMA	0.20	26.0	0.030	3.0	0.89
									99			999.9	-	0.20	21.0	0.063	8.2	2.33
														0.20	22.0	0.072	6.7	1.39
									CDMG	36455	Parkfield - Vineyard Cany 1E	26.7	IQC	0.20	26.0	0.082	10.4	3.03
									99			999.9	-	0.20	24.0	0.167	20.9	5.03
														0.20	23.0	0.230	27.6	6.21
									CDMG	36448	Parkfield - Vineyard Cany 1W	29.5	IQC	0.50	28.0	0.068	6.1	1.49
									99			999.9	-	0.50	26.0	0.081	8.2	2.12
														0.50	23.0	0.087	11.1	2.41
									CDMG	36177	Parkfield - Vineyard Cany 2E	24.6	IFA	-99.				
									99			999.9	-	0.20	30.0	0.161	16.2	3.30
														-99.				
									CDMG	36447	Parkfield - Vineyard Cany 2W	30.7	IHC	0.20	40.0	0.057	5.2	1.54
									99			999.9	-	0.20	30.0	0.073	7.4	1.47
														0.20	30.0	0.083	6.9	1.22
									CDMG	36176	Parkfield - Vineyard Cany 3W	32.3	IPA	0.20	31.0	0.056	6.2	1.75
									99			999.9	-	0.20	30.0	0.098	11.8	2.95
														0.20	30.0	0.137	13.5	2.57
									CDMG	36446	Parkfield - Vineyard Cany 4W	34.6	IMB	0.20	30.0	0.024	2.8	0.64
									99			999.9	-	0.20	30.0	0.064	6.5	1.37
														0.20	27.0	0.046	4.2	0.95
									CDMG	36440	Parkfield - Vineyard Cany 5W	37.1	IHB	0.20	30.0	0.048	4.9	1.09
									99			999.9	-	0.20	21.0	0.062	6.9	1.47

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)					
0067	Coalinga 02	1983	0509	0249	5.0	5.3	4.7	0.0	CDMG	36441	Parkfield - Vineyard Cany 6W	41.0	IPC	-99.	0.20	30.0	0.038	4.8	1.62
												999.9	-	0.20	25.0	0.054	9.5	2.76	
														0.20	27.0	0.076	5.4	1.82	
									USGS	1162	Pleasant Valley P.P. - bldg	8.5	AHD	0.20	30.0	0.206	12.3	2.53	
										01		999.9	-	0.20	20.0	0.380	32.4	6.43	
														0.20	22.0	0.285	19.1	2.59	
									USGS	1162	Pleasant Valley P.P. - yard	8.5	AHD	0.20	31.0	0.353	16.1	2.35	
										01		999.9	-	0.20	40.0	0.592	60.2	8.77	
														0.20	31.0	0.551	36.4	3.96	
									CDMG	46175	Slack Canyon	27.7	IGA	0.20	21.0	0.053	6.8	2.42	
										01		999.9	-	0.20	21.0	0.166	16.1	4.19	
														0.20	21.0	0.153	13.3	2.72	

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
0068	Coalinga 02	1983	0611	0309	5.3	5.2	5.4	0.0	CDMG	46T06 99	Oil fields - Skunk Hollow	12.7* 999.9	APA -	0.60 1.00 0.50	30.0 35.0 35.0	0.178 0.082 0.313	5.0 1.7 9.3	0.26 0.07 0.41
									USGS	1609 99	Palmer Ave	12.7* 999.9	APB -	0.50 1.00 0.50	25.0 30.0 15.0	0.343 0.095 0.202	10.8 2.1 7.5	0.56 0.13 0.34
									USBR	1162 99	Pleasant Valley P.P. - yard	14.6* 999.9	AHD -	0.30 0.40 0.20	20.0 30.0 30.0	0.289 0.102 0.078	13.6 2.6 9.5	0.75 0.16 1.04
									USGS	7 99	SGT (temp)	14.1* 999.9	IZA -	0.50 0.30 0.10	25.0 50.0 60.0	0.220 0.071 0.139	9.3 2.7 5.8	0.50 0.15 0.70
									USGS	1605 99	Skunk Hollow	12.4* 999.9	APA -	0.10 0.70 0.30	60.0 35.0 25.0	0.244 0.077 0.171	7.4 1.9 6.1	0.68 0.12 0.49
									USGS	8 99	SUB (temp)	14.5* 999.9	IQD -	0.30 0.40 0.15	25.0 50.0 35.0	0.104 0.079 0.116	4.6 2.0 5.9	0.37 0.15 0.85
									CDMG	1703 99	Sulphur Baths (temp)	20.3* 999.9	APA -	0.10 0.50 0.60	40.0 20.0 15.0	0.216 0.005 0.008	12.2 0.3 0.5	1.42 0.06 0.04
									USGS	9 99	TRA (temp)	14.9* 999.9	IQD -	0.80 0.10 0.20	20.0 50.0 35.0	0.004 0.079 0.131	0.3 4.9 9.4	0.03 0.36 0.97
									USGS	10 99	VEW (temp)	12.6* 999.9	IPA -	0.20 0.08 0.05	30.0 60.0 60.0	0.088 0.065 0.146	6.9 1.5 8.7	0.70 0.19 1.09
									USGS	11 99	YUB (temp)	20.1* 999.9	IQD -	0.05 -99. 0.60	60.0 - 40.0	0.121 - 0.034	7.8 - 1.3	0.75 - 0.10
														0.40	40.0	0.022	0.9	0.07
									USGS	1606 99	Burnett Construction	10.5* 999.9	AHD -	0.20 0.15 0.15	30.0 25.0 20.0	0.083 0.165 0.191	4.1 8.0 10.0	0.80 2.43 1.91
									CDMG	46T04 99	CHP (temp)	10.0* 999.9	AHD -	0.20 0.10 0.10	15.0 15.0 15.0	0.028 0.055 0.061	3.8 5.8 4.7	0.76 1.96 1.95
									CDMG	1703 99	Sulphur Baths (temp)	9.7* 999.9	APA -	0.20 0.20 0.20	20.0 20.0 20.0	0.034 0.044 0.037	3.5 5.1 4.5	1.47 2.29 1.64
0069	Coalinga 02	1983	0709	0740	5.2	5.4 (5.3)	4.9	0.0	USGS	1607 99	Anticline Ridge Free-Field	11.0* 999.9	IPA -	0.30 0.30 0.45	40.0 30.0 40.0	0.115 0.330 0.275	3.7 16.1 8.9	0.43 1.20 0.46
									USGS	1607	Anticline Ridge Pad	11.0*	APA	0.30	30.0	0.137	4.7	0.34

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners					
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)	
0070	Coalinga 02	1983	0722	0239	5.8 (5.9)	6.0	5.7	0.0	USGS	1606	Burnett Construction	999.9	-	0.40	30.0	0.378	16.1	1.03
												-	0.40	25.0	0.261	9.2	0.53	
											15.9*	AHD	0.40	30.0	0.074	3.2	0.26	
											999.9	-	0.50	30.0	0.119	6.6	0.50	
											CDMG	46T04	CHP (temp)	0.40	30.0	0.149	7.7	0.52
														0.45	30.0	0.079	2.4	0.22
											999.9	-	0.30	25.0	0.204	8.0	0.62	
											USGS	1604	Oil City	0.30	25.0	0.171	5.4	0.38
														0.40	30.0	0.210	4.6	0.29
											999.9	-	0.20	30.0	0.387	13.8	1.59	
											USGS	1608	Oil Fields Fire Station - FF	0.20	30.0	0.370	12.4	0.89
														0.25	30.0	0.062	2.0	0.22
											999.9	-	0.60	30.0	0.088	3.0	0.26	
											USGS	1608	Oil Fields Fire Stn - Pad	0.12	30.0	0.096	4.1	0.71
														0.40	30.0	0.073	1.9	0.20
											999.9	-	0.10	25.0	0.094	3.4	0.53	
											USGS	1609	Palmer Ave	0.40	25.0	0.109	4.0	0.32
														0.60	20.0	0.109	3.2	0.24
											USGS	1605	Skunk Hollow	0.50	20.0	0.211	7.0	0.43
														0.50	30.0	0.161	3.1	0.19
											999.9	-	0.40	30.0	0.187	6.4	0.32	
0070	Coalinga 02	1983	0722	0239	5.8 (5.9)	6.0	5.7	0.0	USGS	1606	Burnett Construction	999.9	-	0.30	20.0	0.141	6.2	0.37
												0.30	20.0	0.141	6.2	0.37		
											CDMG	1703	Sulphur Baths (temp)	0.35	30.0	0.055	2.2	0.21
														0.40	25.0	0.074	1.5	0.15
											USGS	1651	Transmitter Hill	0.30	30.0	0.114	3.3	0.35
														0.20	25.0	0.205	12.0	1.34
											999.9	-	0.30	30.0	0.194	9.9	0.87	
											USGS	1606	Burnett Construction	0.10	30.0	0.210	10.2	1.09
														0.30	30.0	0.269	14.2	2.32
											CDMG	46T04	CHP (temp)	0.50	25.0	0.323	16.2	1.43
														0.30	30.0	0.204	7.1	1.10
											999.9	-	0.40	30.0	0.324	14.4	1.39	
											USGS	1604	Oil City	0.30	30.0	0.605	20.7	2.32
														0.60	30.0	0.568	12.5	1.20
											999.9	-	0.15	30.0	0.866	42.2	6.14	
											USGS	1608	Oil Fields Fire Station - FF	0.80	30.0	0.447	24.8	2.23
														0.10	30.0	0.135	7.7	2.82
											999.9	-	0.20	30.0	0.219	14.0	2.85	
											USGS	1608	Oil Fields Fire Station Pad	0.10	30.0	0.187	14.8	3.82
														0.10	30.0	0.152	8.5	3.19
											999.9	-	0.05	30.0	0.217	18.1	2.90	
											USGS	1609	Palmer Ave	0.08	25.0	0.210	14.8	4.38
														0.20	25.0	0.201	6.9	1.35

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F	HP (hz)			LP (hz)					
0071	Coalinga 02	1983	0722	0343	4.9	5.0	0.0	0.0	CDMG	99		999.9	-	0.06	20.0	0.272	12.8	3.31	
										0.09	20.0	0.290	21.5	3.31					
										USBR	1162	Pleasant Valley P.P. - FF	17.4	AHD	0.07	30.0	0.128	5.9	2.50
										99		999.9	-	0.03	30.0	0.228	21.6	6.24	
										0.10	30.0	0.408	18.9	5.64					
										USBR	1162	Pleasant Valley P.P. - yard	17.4	AHD	0.40	30.0	0.316	12.9	0.92
										99		999.9	-	0.08	30.0	0.602	34.8	8.06	
										0.10	30.0	0.327	12.1	2.33					
										USGS	1605	Skunk Hollow	12.2	APA	0.10	40.0	0.230	10.0	2.89
										99		999.9	-	0.07	30.0	0.375	16.4	6.23	
										0.10	30.0	0.233	18.9	2.65					
										CDMG	1703	Sulphur Baths (temp)	9.7	APA	0.30	30.0	0.082	4.1	0.69
										99		999.9	-	0.30	25.0	0.141	5.5	0.79	
										0.30	25.0	0.127	6.3	0.66					
										USGS	1651	Transmitter Hill	9.2	APA	0.10	40.0	0.394	11.0	3.60
										99		999.9	-	0.10	30.0	0.840	44.1	6.80	
										0.08	40.0	1.083	39.7	5.41					
										CDMG	46T04	CHP (temp)	12.1*	AHD	0.70	30.0	0.118	3.1	0.17
										99		999.9	-	0.50	25.0	0.148	5.7	0.43	
0072	Coalinga 02	1983	0725	2231	5.2	5.3	5.1	0.0	CDMG	1703	Sulphur Baths (temp)	13.7*	APA	0.20	20.0	0.029	1.1	0.17	
										99		999.9	-	0.50	20.0	0.039	1.6	0.21	
										0.20	20.0	0.030	1.0	0.16					
										CDMG	46T04	CHP (temp)	12.7*	AHD	0.30	40.0	0.332	8.4	0.61
										99		999.9	-	0.30	40.0	0.431	18.7	1.21	
										0.10	40.0	0.733	37.6	5.24					
0073	Trinidad offshore 99	1983	0824	1336	0.0	5.5	5.7	0.0	CDMG	1703	Sulphur Baths (temp)	14.7*	APA	0.40	30.0	0.139	6.5	0.32	
										99		999.9	-	0.30	30.0	0.152	8.5	1.27	
										0.30	25.0	0.230	10.9	0.76					
										1498	Rio Dell Overpass, E Ground	67.6*	APC	0.30	30.0	0.030	1.6	0.43	
										99		999.9	B	0.15	30.0	0.194	8.5	0.82	
										0.30	30.0	0.145	6.4	4.93					
0074	Coalinga 00	1983	0909	0916	5.3	5.3	5.4	0.0	CDMG	1498	Rio Dell Overpass, W Ground	67.6*	APC	0.50	40.0	0.033	1.8	1.62	
										99		999.9	B	0.40	40.0	0.166	6.5	0.56	
										0.20	35.0	0.128	4.6	0.84					
										46T04	CHP (temp)	13.7*	AHD	0.80	30.0	0.030	0.8	0.07	
										99		999.9	-	0.90	20.0	0.023	1.0	0.09	
										0.90	20.0	0.033	1.3	0.07					
0075	Taiwan SMART1(25)	1983	0921		0.0	6.8	6.5	0.0	CDMG	1703	Sulphur Baths (temp)	18.4*	APA	0.80	20.0	0.016	0.6	0.04	
										99		999.9	-	0.80	15.0	0.014	0.6	0.06	
										0.80	15.0	0.016	0.6	0.06					
										25	SMART1 C00	83.0	IZD	-99.					

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)					
03									99		999.9	-	0.20	25.0	0.028	4.2	0.91		
													0.20	25.0	0.028	3.5	1.16		
									32	SMART1 E01	83.0	IZD	0.50	25.0	0.013	1.8	0.31		
									99		999.9	-	0.20	25.0	0.028		0.96		
													0.20	25.0	0.028	4.1	0.71		
									33	SMART1 E02	83.0	IZD	0.10	25.0	0.005	0.5	0.20		
									99		999.9	-	0.10	25.0	0.020	1.4	0.30		
													0.10	25.0	0.022	2.2	0.41		
									62	SMART1 I01	83.0	IZD	0.10	25.0	0.008	1.5	0.40		
									99		999.9	-	0.10	25.0	0.023	3.9	0.87		
													0.10	25.0	0.037	4.6	0.85		
									61	SMART1 I07	83.0	IZD	0.10	25.0	0.009	1.4	0.43		
									99		999.9	-	0.10	25.0	0.035	3.8	0.79		
													0.10	25.0	0.032	4.0	0.97		
									28	SMART1 M01	83.0	IZD	0.10	25.0	0.005	0.8			
									99		999.9	-	0.10	25.0	0.020	2.7	0.67		
													0.10	25.0	0.039	5.0	0.82		
									60	SMART1 M06	83.0	IZD	0.10	25.0	0.010	1.7	0.40		
									99		999.9	-	0.10	25.0	0.021	2.8			
													0.10	25.0	0.031	4.3	1.10		
									30	SMART1 O01	83.0	IZD	0.10	25.0	0.007	0.9			
									99		999.9	-	0.50	25.0	0.028	3.2	0.52		
													0.10	25.0	0.027	2.8	0.69		
									31	SMART1 O07	83.0	IZD	0.10	25.0	0.015	1.6			
									99		999.9	-	0.10	25.0	0.025	4.2	1.42		
													0.10	25.0	0.026	3.3	1.10		
0076	Morgan Hill 00	1984	0424	2115	6.2	6.2	6.1	0.0	CDMG	57066	Agnews State Hospital 00	29.4	AQD	0.20	18.0	0.016	3.2	1.56	
										999.9		C	0.20	14.0	0.032	5.0	2.33		
													0.20	13.0	0.032	5.5	2.05		
									USGS	1652	Anderson Dam (Downstream) 00	2.6	AFD	0.10	45.0	0.204	9.8	1.81	
										999.9		B	0.10	30.0	0.423	25.3	4.58		
													0.10	38.0	0.289	27.6	6.33		
									CDMG	58375	APEEL 1 - Redwood City 00	54.1	IQE	0.50	28.0	0.016	0.8	0.16	
										999.9		D	0.20	21.0	0.046	3.4	0.66		
													0.20	23.0	0.068	3.9	0.63		
									USGS/CDMG	1180	APEEL 1E - Hayward 00	51.8	IHD	-99.					
										999.9		-	0.20	22.0	0.041	2.6	0.75		
													0.20	19.0	0.027	3.1	0.61		
									CDMG	47125	Capitola 00	38.1	AQC	0.20	35.0	0.045	2.1	0.39	
										999.9		C	0.20	30.0	0.099	4.9	0.61		
													0.20	28.0	0.142	8.1	1.62		
									CDMG	57007	Corralitos 00	22.7	APB	0.20	27.0	0.040	4.0	0.54	
										999.9		B	0.20	24.0	0.081	6.4	1.17		
													0.20	26.0	0.109	10.8	2.13		
									CDMG	57217	Coyote Lake Dam (SW Abut)	0.1	IFA	0.10	50.0	0.388	15.6	2.65	

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No. H/F			HP (hz)	LP (hz)			
									00	999.9	-	0.10	39.0	0.711	51.6	12.00
												0.10	45.0	1.298	80.8	9.63
								CDMG	57064 Fremont - Mission San Jose	31.4	AMB	0.50	21.0	0.018	1.3	0.40
									00	999.9	B	0.50	21.0	0.025	2.4	0.76
												0.20	18.0	0.021	3.2	1.03
								CDMG	47379 Gilroy Array #1	16.2	IFA	0.10	33.0	0.092	3.3	1.07
									00	999.9	A	0.10	29.0	0.069	2.9	1.26
												0.10	40.0	0.098	2.9	1.02
								CDMG	47380 Gilroy Array #2	15.1	IQD	0.20	37.0	0.578	10.8	0.92
									00	999.9	C	0.20	31.0	0.162	5.1	1.42
												0.10	37.0	0.212	12.6	2.10
								CDMG	47381 Gilroy Array #3	14.6	IHD	0.10	42.0	0.395	9.9	1.22
									00	999.9	C	0.10	37.0	0.194	11.2	2.41
												0.10	32.0	0.200	12.7	3.45
								CDMG	57382 Gilroy Array #4	12.8	AHD	0.10	39.0	0.408	11.8	1.70
									00	999.9	C	0.10	25.0	0.224	19.3	4.33
												0.10	27.0	0.348	17.4	3.11
								CDMG	57383 Gilroy Array #6	11.8	IKB	0.10	30.0	0.405	14.1	1.86
									00	999.9	B	0.10	35.0	0.222	11.4	2.45
												0.10	27.0	0.292	36.7	6.12
								CDMG	57425 Gilroy Array #7	14.0	AHB	0.10	40.0	0.428	5.4	0.93
									00	999.9	C	0.10	31.0	0.190	7.4	2.06
												0.10	30.0	0.113	6.0	1.79
								CDMG	47006 Gilroy Gavilan Coll.	16.2	AFB	0.50	42.0	0.081	2.3	0.41
									00	999.9	B	0.10	30.0	0.114	3.6	0.87
												0.10	30.0	0.095	2.9	0.93
								CDMG	57191 Halls Valley	3.4	IFC	0.20	28.0	0.110	12.2	1.25
									00	999.9	C	0.20	26.0	0.156	12.5	1.84
												0.20	30.0	0.312	39.4	7.66
								USGS	1028 Hollister City Hall	32.5	CHD	0.20	25.0	0.118	3.9	1.07
									00	999.9	C	0.20	19.0	0.071	7.4	1.60
												0.20	24.0	0.071	9.0	3.81
								USGS	1656 Hollister Diff. Array	28.3	IQD	0.20	24.0	0.222	7.0	0.81
									00	999.9	-	0.20	29.0	0.089	8.7	1.72
												0.20	23.0	0.088	11.9	1.89
								USGS	1656 Hollister Diff Array #1	28.3	IQD	0.10	35.0	0.213	6.2	0.90
									00	999.9	-	0.20	33.0	0.095	9.7	1.53
												0.20	30.0	0.088	11.6	1.76
								USGS	1656 Hollister Diff Array #3	28.3	IQD	0.10	35.0	0.243	8.9	0.98
									00	999.9	-	0.10	30.0	0.078	7.2	1.47
												0.20	30.0	0.081	10.0	1.90
								USGS	1656 Hollister Diff Array #4	28.3	IQD	0.10	35.0	0.282	9.8	1.03
									00	999.9	-	0.10	30.0	0.098	10.3	1.68
												0.20	30.0	0.092	10.2	1.90
								USGS	1656 Hollister Diff Array #5	28.3	IQD	0.20	35.0	0.250	8.0	1.10

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
										00	999.9	-	0.20	30.0	0.098	10.3	2.00	
									CDMG	56012	Los Banos	64.4	AHD	0.50	20.0	0.011	1.0	0.50
										00	999.9	C	0.50	18.0	0.051	5.8	1.75	
													0.50	18.0	0.057	8.3	1.89	
									CDMG	1377	San Juan Bautista	30.3	AQD	0.10	21.0	0.052	2.7	1.35
										00	999.9	B	0.10	21.0	0.044	4.3	1.73	
													0.10	21.0	0.036	4.4	1.52	
									USGS	1655	San Justo Dam (L Abut)	34.9	FPD	0.50	32.0	0.033	2.2	0.52
										00	999.9	-	0.20	29.0	0.081	6.5	2.59	
													0.20	30.0	0.070	5.1	1.86	
									USGS	1655	San Justo Dam (R Abut)	34.9	FPD	0.20	25.0	0.044	2.8	1.04
										00	999.9	-	0.20	24.0	0.078	7.0	3.07	
													0.20	23.0	0.060	5.8	2.16	
									CDMG	58235	Saratoga - WVC E Wall	28.7	AQD	-99.				
										00	999.9	-	-99.	30.0	0.098	4.6	0.61	
													-99.					
									CDMG	58235	Saratoga - WVC NE Corner	28.7	AQD	-99.				
										00	999.9	-	0.20	30.0	0.041	3.5	0.99	
													-99.					
									CDMG	58235	Saratoga - WVC SE Corner	28.7	AQD	-99.				
										00	999.9	-	0.50	30.0	0.045	3.1	0.88	
													-99.					
									CDMG	58223	SF Intern. Airport	71.2	AHD	0.50	32.0	0.018	0.8	0.28
										00	999.9	C	0.50	26.0	0.048	3.2	0.40	
													0.50	24.0	0.048	2.7	0.47	
									CDMG	58135	UCSC Lick Observatory	44.1	AKA	0.50	22.0	0.031	1.2	0.32
										00	999.9	E	0.50	21.0	0.039	2.0	0.29	
													0.50	22.0	0.076	3.6	0.62	
0077	Bishop (Rnd Val) 00	1984	1123	1912	5.8	5.5	5.7	0.0	USGS	1661	McGee Creek - Surface	19.0*	IQC	2.00	15.0	0.106	2.2	0.05
										00	999.9	-	1.50	40.0	0.088	1.8	0.07	
													1.00	40.0	0.128	2.2	0.07	
0078	Taiwan SMART1(33) 99	1985	0612		0.0	6.5	5.8	0.0		25	SMART1 C00	45.0	IZD	0.20	25.0	0.021	0.9	0.16
										99	999.9	-	0.20	25.0	0.083	3.9		
													0.20	25.0	0.051	3.1		
										62	SMART1 I01	45.0	IZD	0.50	25.0	0.025	0.9	0.15
										99	999.9	-	0.50	25.0	0.142	5.6	0.37	
													0.50	25.0	0.070	3.5	0.28	
										61	SMART1 I07	45.0	IZD	0.20	25.0	0.014	0.6	0.25
										99	999.9	-	0.20	25.0	0.055	2.8	0.41	
													0.20	25.0	0.040	2.2	0.29	
										28	SMART1 M01	45.0	IZD	0.20	25.0	0.015	0.6	
										99	999.9	-	0.20	25.0	0.031	2.0		
													0.20	25.0	0.052	2.3		

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
0079	Nahanni, Canada 03	1985	1223		6.8	0.0	6.9	0.0	29	SMART1 M07	45.0	IZD	0.20	25.0	0.021	0.7	0.20	
									99		999.9	-	0.20	25.0	0.095	4.8	0.58	
													0.20	25.0	0.050	3.1	0.81	
									30	SMART1 O01	45.0	IZD	0.50	25.0	0.014	0.4		
									99		999.9	-	0.50	25.0	0.063	2.0	0.25	
													0.50	25.0	0.052	2.1	0.31	
									31	SMART1 O07	45.0	IZD	0.20	25.0	0.014	0.9		
									99		999.9	-	0.20	25.0	0.057	2.9	1.00	
													0.20	25.0	0.048	2.8	0.85	
									6097	Site 1	6.0	IZA	0.20	62.5	2.086	40.5	12.12	
									01		999.9	-	0.05	62.5	0.978	46.0	9.67	
													0.05	62.5	1.096	46.1	14.58	
0080	Hollister 00	1986	0126	1920	5.4	5.5	0.0	0.0	6098	Site 2	8.0	IZA	-99.					
									01		999.9	-	0.10	62.5	0.489	29.3	7.61	
													0.05	62.5	0.323	33.1	6.54	
									6099	Site 3	16.0	IZA	0.05	62.5	0.140	6.8	3.02	
									02		999.9	-	0.10	62.5	0.148	6.1	3.13	
													0.05	62.5	0.139	3.3	1.06	
									1656	Hollister Diff Array #1	16.9*	IQD	0.20	45.0	0.172	5.2	0.56	
									00		999.9	-	0.10	45.0	0.101	9.3	1.95	
													0.10	40.0	0.114	8.3	2.29	
									USGS	1656	Hollister Diff Array #3	16.9*	IQD	0.30	40.0	0.124	5.0	0.51
									00		999.9	-	0.20	35.0	0.106	7.9	1.60	
													0.40	40.0	0.104	9.2	1.41	
0081	Mt. Lewis 99	1986	0331	1155	5.6	5.8	5.5	0.0	USGS	1656	Hollister Diff Array #4	16.9*	IQD	0.30	40.0	0.073	4.1	0.50
									00		999.9	-	0.10	35.0	0.102	9.0	1.91	
													-99.					
									CDMG	47189	SAGO South - Surface	14.9*	IGB	0.30	20.0	0.053	3.4	0.53
									00		999.9	B	0.25	20.0	0.044	5.3	1.27	
													0.15	15.0	0.090	9.3	1.70	
									57191	Halls Valley	15.5*	IFC	0.40	20.0	0.072	3.9	0.56	
									99		999.9	C	0.30	20.0	0.140	8.5	1.65	
													0.10	20.0	0.159	18.4	4.40	
0082	Taiwan SMART1(40) 03	1986	0520		6.4	6.5	6.4	0.0	25	SMART1 C00	64.0	IZD	0.20	25.0	0.038	4.1	1.21	
									99		999.9	-	0.20	25.0	0.172	33.0	6.94	
													0.20	25.0	0.232	19.4	5.07	
									32	SMART1 E01	64.0	IZD	0.20	25.0	0.046	4.9	1.15	
									99		999.9	-	0.20	25.0	0.203	36.5	7.60	
													0.20	25.0	0.183	15.1	3.06	
									62	SMART1 I01	64.0	IZD	0.20	25.0	0.036	4.1	0.86	
									99		999.9	-	0.20	25.0	0.183	32.4	6.90	
													0.20	25.0	0.175	18.1	4.24	
									61	SMART1 I07	64.0	IZD	0.20	25.0	0.041	3.7		

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH		No.	Description H/F			HP (hz)	LP (hz)			
										99		999.9	-	0.20	25.0	0.167	30.6	7.06
														0.20	25.0	0.150	17.7	4.10
										28	SMART1 M01	64.0	IZD	0.20	25.0	0.035	3.9	1.05
										99		999.9	-	0.20	25.0	0.156	26.3	5.75
														0.20	25.0	0.173	22.8	4.02
										29	SMART1 M07	64.0	IZD	0.20	25.0	0.039	4.2	0.81
										99		999.9	-	0.20	25.0	0.182	37.9	8.54
														0.20	25.0	0.254	23.7	6.01
										30	SMART1 O01	64.0	IZD	0.20	25.0	0.034	3.3	0.99
										99		999.9	-	0.20	25.0	0.106	20.7	4.89
														0.20	25.0	0.160	21.9	3.73
										31	SMART1 O07	64.0	IZD	0.20	25.0	0.074	4.3	0.83
										99		999.9	-	0.20	25.0	0.159	28.3	6.83
														0.20	25.0	0.163	16.1	3.50
0083	N. Palm Springs 03	1986	0708	0920	6.0	5.9 (6.0)	6.0	0.0	USGS	5224	Anza - Red Mountain	45.6	AGA	0.50	50.0	0.072	2.2	0.21
										99		999.9	A	0.30	35.0	0.104	5.2	0.62
														0.60	40.0	0.129	3.4	0.46
									USGS	5231	Anza - Tule Canyon	55.4	AGA	0.40	30.0	0.049	2.6	0.30
										99		999.9	B	0.30	30.0	0.110	6.5	0.71
														0.35	35.0	0.095	7.5	0.71
									USGS	5160	Anza Fire Station	46.7	AHC	0.50	50.0	0.056	2.3	0.23
										99		999.9	A	0.50	40.0	0.099	5.8	0.29
														0.60	30.0	0.067	4.0	0.50
									USGS	5073	Cabazon	16.3	AHD	0.20	45.0	0.363	7.4	0.84
										02		999.9	-	0.15	40.0	0.217	7.6	1.96
														0.15	40.0	0.212	16.3	2.24
									CDOT	754	Colton Interchange - Vault	57.4	BHD	0.40	30.0	0.017	1.6	0.40
										99		999.9	-	0.40	30.0	0.042	3.5	0.59
														0.40	30.0	0.065	4.1	0.43
									USGS	5157	Cranston Forest Station	35.3	AQB	0.70	45.0	0.118	4.0	0.55
										99		999.9	B	0.60	45.0	0.153	7.4	0.91
														0.60	45.0	0.169	11.7	1.14
									CDMG	12149	Desert Hot Springs	8.0	AQD	-99.				
										01		999.9	B	0.50	46.0	0.331	29.5	5.69
														0.50	40.0	0.271	15.7	3.61
									USGS	5069	Fun Valley	15.8	AHC	0.13	50.0	0.071	3.7	0.67
										99		999.9	B	0.21	35.0	0.129	6.4	1.06
														0.25	40.0	0.119	10.6	1.38
									CDMG	12331	Hemet Fire Station	43.3	AQD	0.50	47.0	0.094	3.1	0.25
										99		999.9	C	0.50	35.0	0.144	4.9	0.73
														0.50	31.0	0.132	4.9	0.38
									CDMG	23321	Hesperia	75.9	AQD	0.20	39.0	0.033	1.2	0.42
										99		999.9	B	0.20	25.0	0.041	2.3	0.70
														0.20	30.0	0.037	1.7	0.91
									USGS	5043	Hurkey Creek Park	34.9	AQB	0.40	50.0	0.097	3.6	0.55

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
								99		999.9	B	0.60	50.0	0.240	7.4	0.45	
												0.50	50.0	0.187	9.1	0.89	
								CDMG	12026	Indio - Coachella Canal	45.7	IQD	0.50	40.0	0.054	1.8	0.62
								99		999.9	C	0.50	30.0	0.053	5.3	1.18	
												0.50	33.0	0.050	3.2	1.23	
								USGS	5067	Indio	39.6	AHD	0.10	40.0	0.087	3.1	1.40
								99		999.9	-	0.10	35.0	0.064	6.6	2.21	
												0.10	35.0	0.117	12.3	3.62	
								CDMG	22170	Joshua Tree	29.8	AGC	0.50	36.0	0.040	3.6	0.60
								99		999.9	B	0.50	30.0	0.052	3.7	0.75	
												0.50	24.0	0.065	3.9	0.48	
								CDMG	707	Lake Mathews Dike Toe	73.7	AJA	2.00	40.0	0.039	0.5	0.02
								99		999.9	-	1.00	50.0	0.061	1.5	0.08	
												1.00	35.0	0.046	0.8	0.03	
								CDMG	22T13	Landers Fire Station	38.2	AQD	0.50	40.0	0.055	2.4	0.42
								99		999.9	-	0.50	30.0	0.081	4.3	0.42	
												0.50	30.0	0.098	4.6	0.53	
								USGS	5071	Morongo Valley	10.1	AHC	0.30	50.0	0.395	10.6	1.61
								01		999.9	B	0.08	50.0	0.218	31.4	8.51	
												0.08	50.0	0.205	40.9	14.96	
								CDMG	13198	Murrieta Hot Springs	63.3	IGA	0.50	28.0	0.032	0.8	0.31
								99		999.9	A	0.50	40.0	0.053	1.8	0.30	
												0.50	40.0	0.049	1.3	0.32	
								USGS	5070	North Palm Springs	8.2	AHD	0.40	40.0	0.435	12.1	1.16
								01		999.9	B	0.15	20.0	0.594	73.3	11.46	
												0.23	30.0	0.694	33.8	3.88	
								CDMG	12025	Palm Springs Airport	16.6	IQD	-99.				
								99		999.9	C	0.20	50.0	0.158	12.4	2.30	
												0.20	60.0	0.187	12.2	2.07	
								CDMG	12168	Puerta La Cruz	71.9	AQB	0.20	44.0	0.035	1.6	0.34
								99		999.9	B	0.20	38.0	0.075	2.4	0.27	
												0.20	32.0	0.055	1.8	0.32	
								CDMG	5253	Rancho Cucamonga ff	82.8	IHD	-99.				
								99		999.9	-	0.20	40.0	0.021	1.3	0.33	
												0.30	40.0	0.019	1.1	0.27	
								CDMG	13123	Riverside Airport	71.1	AQB	0.50	48.0	0.023	0.6	0.14
								99		999.9	B	0.50	40.0	0.051	1.2	0.14	
												0.50	42.0	0.040	1.0	0.15	
								CDMG	12204	San Jacinto - Soboba	32.0	AGC	0.50	50.0	0.203	6.4	0.76
								99		999.9	B	0.50	48.0	0.250	9.6	1.14	
												0.50	49.0	0.239	9.2	1.21	
								CDMG	12202	San Jacinto Vall. Cem	39.6	AQD	0.50	40.0	0.053	1.8	0.30
								99		999.9	C	0.20	38.0	0.069	3.1	0.99	
												0.20	31.0	0.063	4.4	1.22	
								USGS	5230	Santa Rosa Mountain	43.8	AGA	1.00	50.0	0.051	1.5	0.10

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners							
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)			
0084	Chalfant Valley 00	1986	0720	1429	0.0	5.9	0.0	0.0	CDMG	99		999.9	-	1.50	60.0	0.102	2.2	0.10		
														1.50	60.0	0.103	2.2	0.10		
											CDMG	12206	Silent Valley - Poppet F	25.8	IGA	0.50	50.0	0.095	3.0	0.47
											02			999.9	A	0.50	47.0	0.139	3.9	0.55
																0.50	49.0	0.113	4.0	0.80
											USGS	5038	Sunnymead	44.4	BHD	0.50	40.0	0.056	2.6	0.33
											99			999.9	-	0.30	40.0	0.093	3.9	0.58
																0.40	40.0	0.012	5.1	0.56
											CDMG	13172	Temecula Fire Station	73.2	AQB	0.50	27.0	0.028	1.2	0.24
											99			999.9	C	0.50	25.0	0.121	6.9	0.53
																0.50	25.0	0.098	4.6	0.68
											USGS	5072	Whitewater Trout Farm	7.3	AHC	0.50	40.0	0.471	13.4	1.02
											01			999.9	A	0.10	40.0	0.492	34.7	6.38
																0.15	45.0	0.612	31.5	4.58
											CDMG	13199	Winchester Bergman Ran	57.6	AGA	0.50	48.0	0.072	1.6	0.25
											99			999.9	A	0.50	42.0	0.070	1.9	0.19
																0.50	50.0	0.093	1.8	0.29
											CDMG	13201	Winchester Page Bros R	46.8	IQD	0.50	59.0	0.070	2.0	0.34
											99			999.9	-	0.50	50.0	0.106	3.8	0.69
																0.50	37.0	0.110	4.3	0.64
										0084	Chalfant Valley 00	1986	0720	1429	0.0	5.9	0.0	0.0	CDMG	54100
00		999.9	-	0.30	30.0	0.061	3.0	0.57												
				0.20	30.0	0.052	2.4	0.47												
	CDMG	54171	Bishop - LADWP South St	24.0*	AQD	0.10	40.0	0.049	3.3											0.96
	00			999.9	-	0.11	20.0	0.129	8.5											2.38
						0.10	20.0	0.094	8.6											3.05
	CDMG	54424	Bishop - Paradise Lodge	18.4*	AVA	0.20	40.0	0.067	2.9											0.96
	00			999.9	-	0.11	30.0	0.046	1.7											0.24
						0.13	30.0	0.095	6.3											1.69
	CDMG	54T03	Lake Crowley - Shehorn Res.	26.0*	AAB	0.70	30.0	0.029	0.9											0.06
	00			999.9	-	0.16	30.0	0.051	2.2											0.54
						0.16	25.0	0.031	1.8											0.53
	CDMG	54428	Zack Brothers Ranch	11.0*	AAD	0.11	45.0	0.205	5.4											2.06
	00			999.9	-	0.11	40.0	0.285	17.3											4.00
						0.10	30.0	0.207	22.3											5.41
0085	Chalfant Valley 00	1986	0721	1442	6.2	6.3	6.0	0.0	CDMG	54100	Benton	37.2	AQD	0.50	30.0	0.127	6.8	1.53		
										00		999.9	-	0.10	40.0	0.209	13.6	2.88		
														0.20	33.0	0.177	15.7	3.12		
											CDMG	54171	Bishop - LADWP South St	9.2	AQD	0.10	40.0	0.140	6.7	2.25
											00			999.9	-	0.10	40.0	0.248	19.2	7.04
																0.10	30.0	0.175	19.4	6.72
											CDMG	54424	Bishop - Paradise Lodge	23.0	AVA	0.10	50.0	0.127	5.9	1.41
											00			999.9	-	0.20	30.0	0.165	4.9	2.17
																0.10	40.0	0.161	12.4	3.26

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No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners																																																																																															
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)																																																																																											
0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54099	Convict Creek	44.9	AQD	0.20	40.0	0.036	3.1	1.09																																																																																										
										00		999.9	-	0.10	30.0	0.060	4.0	1.57																																																																																										
										0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54T03	Lake Crowley - Shehorn Res.	36.0	AAB	0.20	40.0	0.071	3.9	1.07																																																																																
																				00		999.9	-	0.50	30.0	0.163	7.0	0.77																																																																																
																				0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54214	Long Valley Dam (Downstr)	33.4	IVA	0.10	50.0	0.047	3.4	1.01																																																																						
																														00		999.9	-	0.10	40.0	0.095	4.8	1.30																																																																						
																														0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54214	Long Valley Dam (L Abut)	33.4	IVA	0.10	40.0	0.056	6.4	2.58																																																												
																																								00		999.9	-	0.10	43.0	0.075	3.3	1.45																																																												
																																								0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54T04	Mammoth Lakes Sheriff Subst.	50.8	AVB	0.10	50.0	0.082	7.0	1.34																																																		
																																																		00		999.9	-	0.10	50.0	0.074	7.9	3.06																																																		
																																																		0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	USGS	1661	McGee Creek Surface	36.3	IQC	0.50	23.0	0.026	1.6	0.39																																								
																																																												00		999.9	-	0.50	20.0	0.042	2.2	0.42																																								
																																																												0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54101	Tinemaha Res. Free Field	40.6	AVA	0.50	20.0	0.048	2.8	0.54																														
																																																																						00		999.9	-	0.50	30.0	0.037	6.3	1.21																														
																																																																						0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54428	Zack Brothers Ranch	18.7	AAD	0.20	50.0	0.321	12.5	2.80																				
																																																																																00		999.9	-	0.10	33.0	0.447	36.9	7.01																				
																																																																																0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54171	Bishop - LADWP South St	14.0*	AQD	0.10	35.0	0.083	2.4	0.88										
																																																																																										00		999.9	-	0.10	30.0	0.023	1.7	0.54										
																																																																																										0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG	54424	Bishop - Paradise Lodge	14.0*	AVA	0.50	30.0	0.037	3.6	1.12
																																																																																																				00		999.9	-	0.50	30.0	0.037	6.3	1.21
0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG																																																																																											54428	Zack Brothers Ranch	20.0*	AAD	0.20	50.0	0.321	12.5	2.80
																																																																																																				00		999.9	-	0.10	33.0	0.447	36.9	7.01
										0086	Chalfant Valley 00	1986	0721	1451	0.0	5.6	0.0	0.0	CDMG																																																																																	54171	Bishop - LADWP South St	14.0*	AQD	0.10	35.0	0.083	2.4	0.88
																																																																																																				00		999.9	-	0.10	30.0			

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3) Description H/F		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH					HP (hz)	LP (hz)			
									99		999.9	-	0.10	25.0	0.159	2.5	8.26
									33	SMART1 E02	39.0	IZD	0.10	25.0	0.189	23.2	9.46
									99		999.9	-	0.10	25.0	0.052	5.5	3.03
													0.10	25.0	0.136	13.7	5.84
									62	SMART1 I01	39.0	IZD	0.10	25.0	0.143	12.5	6.07
									99		999.9	-	0.10	25.0	0.075	7.1	4.22
													0.10	25.0	0.132	30.5	9.05
													0.10	25.0	0.141	29.8	10.34
									61	SMART1 I07	39.0	IZD	0.10	25.0	0.089	6.9	3.22
									99		999.9	-	0.10	25.0	0.118	23.3	10.69
													0.10	25.0	0.122	27.0	9.64
									28	SMART1 M01	39.0	IZD	0.10	25.0	0.078	6.1	2.26
									99		999.9	-	0.10	25.0	0.119	27.0	8.91
													0.10	25.0	0.141	21.8	9.93
									29	SMART1 M07	39.0	IZD	0.20	25.0	0.106	8.6	3.19
									99		999.9	-	0.10	25.0	0.156	26.8	9.09
													0.20	25.0	0.160	22.5	7.62
									30	SMART1 O01	39.0	IZD	0.10	25.0	0.063	6.3	3.31
									99		999.9	-	0.10	25.0	0.126	21.8	9.66
													0.10	25.0	0.174	21.2	7.90
									63	SMART1 O02	39.0	IZD	0.10	25.0	0.062	7.0	4.66
									99		999.9	-	0.10	25.0	0.160	20.4	9.90
													0.10	25.0	0.242	26.2	11.56
									64	SMART1 O04	39.0	IZD	0.10	25.0	0.081	7.2	2.95
									99		999.9	-	0.10	25.0	0.126	31.9	9.11
													0.10	25.0	0.163	25.3	9.84
									65	SMART1 O06	39.0	IZD	0.10	25.0	0.079	7.0	2.44
									99		999.9	-	0.10	25.0	0.171	24.5	8.91
													0.10	25.0	0.190	22.8	8.65
									31	SMART1 O07	39.0	IZD	0.10	25.0	0.106	8.7	2.36
									99		999.9	-	0.10	25.0	0.154	19.4	8.17
													0.10	25.0	0.164	23.2	11.13
									66	SMART1 O08	39.0	IZD	0.10	25.0	0.105	9.2	4.18
									99		999.9	-	0.10	25.0	0.142	24.5	9.33
													0.10	25.0	0.163	30.1	13.21
									67	SMART1 O10	39.0	IZD	0.10	25.0	0.062	6.2	3.82
									99		999.9	-	0.10	25.0	0.148	24.2	9.97
													0.10	25.0	0.116	26.8	10.08
									68	SMART1 O12	39.0	IZD	0.20	25.0	0.065	6.1	1.99
									99		999.9	-	0.10	25.0	0.139	24.5	8.82
													0.10	25.0	0.159	23.3	10.61
0089	Whittier Narrows 02	1987	1001	1442	6.0	5.9	5.7	0.0	CDMG	24461 Alhambra, Fremont Sch	13.2	AMD	0.40	50.0	0.190	5.5	0.84
									99		999.9	B	0.50	35.0	0.333	22.0	2.42
													0.30	40.0	0.414	16.3	2.32
								CDMG	24402 Altadena - Eaton Canyon		17.5	AQD	0.40	40.0	0.163	3.3	0.44

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No. H/F			HP (hz)	LP (hz)			
									01	999.9	-	0.40	35.0	0.299	11.4	1.20
												0.40	35.0	0.151	5.7	0.50
								USC	90088 Anaheim - W Ball Rd #	24.4	-D	0.60	25.0	0.062	1.8	0.10
									99	999.9	C	0.25	25.0	0.060	6.6	1.33
												0.50	25.0	0.055	3.4	0.63
								USC	90093 Arcadia - Campus Dr #	12.2	-D	0.28	25.0	0.229	6.2	0.56
									99	999.9	C	0.15	25.0	0.300	21.0	3.12
												0.38	25.0	0.163	6.8	0.73
								CDMG	24087 Arleta - Nordhoff Fire Sta	38.9	AQD	0.35	40.0	0.089	3.3	0.58
									99	999.9	-	0.40	30.0	0.093	5.4	0.55
												0.50	30.0	0.091	4.7	0.85
								USC	90069 Baldwin Park - N Holly #	11.9	-D	0.30	25.0	0.080	2.2	0.75
									99	999.9	B	0.13	25.0	0.127	8.6	2.50
												0.50	25.0	0.061	4.3	0.54
								USC	90094 Bell Gardens - Jaboneria #	9.8	-D	0.40	25.0	0.095	2.7	0.40
									99	999.9	C	0.25	25.0	0.219	18.9	2.54
												0.10	25.0	0.212	21.8	4.83
								USC	90014 Beverly Hills - 12520 Mulhol #	27.2	-C	0.40	25.0	0.068	2.4	0.32
									99	999.9	B	0.35	25.0	0.089	5.1	0.53
												0.33	22.5	0.138	6.4	0.58
								USC	90013 Beverly Hills - 14145 Mulhol #	30.3	-C	0.38	25.0	0.043	2.0	0.25
									99	999.9	C	0.33	25.0	0.104	6.5	0.58
												0.35	25.0	0.126	10.3	1.05
								USC	90061 Big Tujunga, Angeles Nat F #	25.5	-C	0.75	25.0	0.085	2.3	0.19
									99	999.9	B	0.40	25.0	0.126	4.6	0.61
												0.90	25.0	0.178	6.7	0.37
								USGS	951 Brea Dam (Downstream)	23.3	IPD	0.50	40.0	0.094	3.1	0.22
									99	999.9	-	0.60	35.0	0.163	6.2	0.36
												0.60	40.0	0.313	14.5	0.77
								USGS	951 Brea Dam (L Abut)	23.3	IPB	0.70	40.0	0.097	2.7	0.20
									99	999.9	-	0.50	40.0	0.118	6.2	0.60
												0.50	30.0	0.149	10.2	0.82
								USC	90087 Brea - S Flower Av #	17.9	-D	0.20	25.0	0.103	9.1	1.31
									99	999.9	C	0.16	25.0	0.115	7.1	1.21
												-99.				
								USC	90012 Burbank - N Buena Vista #	23.7	-D	0.35	25.0	0.105	3.2	0.53
									99	999.9	C	0.25	25.0	0.233	16.0	1.33
												0.30	25.0	0.190	11.6	1.16
								USC	90052 Calabasas - N Las Virg #	53.3	-B	0.40	25.0	0.023	1.6	0.15
									99	999.9	B	0.33	25.0	0.042	2.3	0.35
												0.45	25.0	0.025	1.2	0.13
								USC	90053 Canoga Park - Topanga Can #	47.4	-D	0.35	25.0	0.055	1.9	0.30
									99	999.9	C	0.25	25.0	0.139	7.9	0.76
												0.28	25.0	0.116	8.1	1.13
								USC	90057 Canyon Country - W Lost Cany #	46.4	-D	0.40	25.0	0.073	1.9	0.26

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									99		999.9	C	0.38	25.0	0.109	7.5	0.49
													0.23	22.5	0.103	7.0	0.85
								USGS	108	Carbon Canyon Dam (L Abut)	26.8	AMA	0.80	45.0	0.058	2.4	0.13
									99		999.9	-	0.80	40.0	0.200	6.5	0.51
													0.50	40.0	0.221	8.7	0.64
								USC	90040	Carson - Catskill Ave #	28.1	-D	0.50	25.0	0.037	1.3	0.15
									99		999.9	C	0.18	25.0	0.042	3.8	0.75
													0.55	25.0	0.059	2.4	0.32
								USC	90081	Carson - Water St #	24.5	-D	0.50	25.0	0.046	2.0	0.23
									99		999.9	C	0.20	25.0	0.104	9.0	1.91
													0.30	25.0	0.133	11.3	1.54
								CDMG	24277	Castaic - Hasley Canyon	70.9	A-B	0.50	20.0	0.021	1.5	0.16
									99		999.9	-	0.70	15.0	0.031	1.9	0.19
													0.50	15.0	0.035	2.6	0.31
								CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	1.00	23.0	0.026	1.1	0.08
									99		999.9	B	0.80	15.0	0.071	4.4	0.40
													0.80	20.0	0.065	4.5	0.38
								USC	90078	Compton - Castlegate St #	16.9	-D	0.50	25.0	0.167	3.3	0.19
									99		999.9	C	0.09	25.0	0.332	27.1	5.04
													0.28	25.0	0.333	14.1	1.48
								USC	90068	Covina - S Grand Ave #	17.1	-C	0.33	25.0	0.064	3.1	0.46
									99		999.9	C	0.45	25.0	0.076	5.4	0.90
													0.40	25.0	0.068	4.1	0.62
								USC	90070	Covina - W Badillo #	14.2	-D	0.50	25.0	0.082	2.9	0.22
									99		999.9	C	0.28	25.0	0.134	7.7	1.33
													0.38	25.0	0.081	4.0	0.63
								USC	90079	Downey - Birchdale #	56.8	-D	0.60	25.0	0.230	4.1	0.31
									99		999.9	C	0.28	25.0	0.243	13.7	1.92
													0.15	25.0	0.299	37.8	4.95
								CDMG	14368	Downey - Co Maint Bldg	18.3	AQD	1.00	40.0	0.177	3.3	0.23
									99		999.9	-	0.20	30.0	0.221	28.8	3.95
													0.25	30.0	0.141	13.4	1.60
								USC	90066	El Monte - Fairview Av #	9.8	-D	0.30	25.0	0.136	4.8	0.45
									99		999.9	C	0.33	25.0	0.120	6.7	0.93
													0.13	25.0	0.228	15.0	4.06
								CDMG	13122	Featherly Park - Maint	38.6	AMC	1.30	40.0	0.050	1.4	0.07
									99		999.9	-	0.80	25.0	0.071	3.6	0.26
													0.90	25.0	0.087	5.1	0.33
								USC	90002	Fountain Valley - Euclid #	35.0	-D	0.38	25.0	0.049	1.1	0.16
									99		999.9	C	0.30	25.0	0.071	4.1	0.76
													0.30	25.0	0.062	6.0	1.75
								USGS	709	Garvey Res. - Control Bldg	12.1	APB	0.70	40.0	0.362	9.9	0.75
									01		999.9	-	0.15	40.0	0.384	15.8	2.49
													0.20	40.0	0.457	19.0	4.31
								USC	90063	Glendale - Las Palmas #	19.0	-C	0.63	27.0	0.143	5.7	0.39

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									99		999.9	C	0.28	25.0	0.296	17.1	1.82
													0.45	25.0	0.166	8.4	0.81
									USC	90065 Glendora - N Oakbank #	69.7	-D	0.38	25.0	0.071	3.3	0.48
									99		999.9	B	0.35	25.0	0.092	3.4	0.50
													0.23	25.0	0.110	5.0	0.81
									USC	90073 Hacienda Heights - Colima #	10.5	-C	0.50	25.0	0.096	2.2	0.25
									99		999.9	C	0.23	25.0	0.195	8.6	0.84
													0.45	25.0	0.201	6.3	0.62
									CDMG	12331 Hemet Fire Station	105.0	AQD	1.00	30.0	0.027	0.9	0.07
									99		999.9	C	0.70	25.0	0.038	1.4	0.13
													0.80	25.0	0.032	1.6	0.10
									CDMG	13197 Huntington Beach - Lake St	42.8	AQD	0.22	30.0	0.027	1.3	0.26
									99		999.9	-	0.25	25.0	0.045	1.7	0.49
													0.17	25.0	0.044	3.4	1.27
									CDMG	14196 Inglewood - Union Oil	25.2	IQD	0.50	30.0	0.069	2.4	0.24
									99		999.9	-	0.60	40.0	0.299	8.9	0.78
													0.25	40.0	0.247	18.1	1.92
									CDMG	14403 LA - 116th St School	22.5	AQD	0.20	30.0	0.105	3.0	0.49
									99		999.9	-	0.20	30.0	0.294	17.6	1.97
													0.20	30.0	0.396	21.0	1.75
									CDMG	24157 LA - Baldwin Hills	27.0	IPB	0.40	35.0	0.114	4.0	0.37
									99		999.9	-	0.30	35.0	0.142	8.7	1.40
													0.40	30.0	0.159	8.0	0.72
									USC	90054 LA - Centinela St #	27.7	-D	0.33	25.0	0.032	1.2	0.27
									99		999.9	C	0.30	25.0	0.059	3.0	0.55
													0.25	25.0	0.044	2.6	0.34
									CDMG	24389 LA - Century City CC North	31.4	IQD	0.50	23.0	0.039	1.6	0.20
									99		999.9	-	0.60	30.0	0.078	3.1	0.34
													0.35	30.0	0.111	6.2	0.70
									CDMG	24390 LA - Century City CC South	31.3	IQD	0.40	30.0	0.021	1.7	0.25
									99		999.9	-	0.20	25.0	0.051	3.5	0.61
													0.30	25.0	0.063	5.4	0.83
									USC	90015 LA - Chalon Rd #	32.6	-B	1.00	25.0	0.019	0.7	0.07
									99		999.9	B	0.38	25.0	0.036	2.3	0.21
													0.75	25.0	0.020	1.1	0.12
									USC	90033 LA - Cypress Ave #	11.4	-C	0.40	25.0	0.084	2.9	0.29
									99		999.9	B	0.33	25.0	0.156	8.0	0.88
													0.28	25.0	0.137	9.1	1.35
									USC	90025 LA - E Vernon Ave #	10.8	-D	0.40	25.0	0.086	2.7	0.39
									99		999.9	C	0.18	25.0	0.146	12.8	1.43
													0.16	25.0	0.175	8.8	1.37
									USC	90034 LA - Fletcher Dr #	14.4	-D	0.30	25.0	0.103	7.6	1.03
									99		999.9	C	0.28	25.0	0.171	19.4	2.17
													0.30	25.0	0.213	12.6	1.45
									CDMG	24303 LA - Hollywood Stor FF	25.2	IPD	0.45	50.0	0.070	2.8	0.42

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
									99		999.9	C	0.40	25.0	0.221	9.0	1.43	
													0.40	25.0	0.124	6.9	1.12	
									USC	90016 LA - N Faring Rd #	28.5	-B	0.55	25.0	0.034	1.6	0.13	
									99		999.9	C	0.55	25.0	0.048	2.2	0.26	
													0.40	25.0	0.053	3.0	0.29	
									USC	90032 LA - N Figueroa St #	11.4	-C	0.55	25.0	0.169	5.7	0.47	
									99		999.9	B	0.30	25.0	0.151	7.9	1.10	
													0.20	25.0	0.166	13.1	1.82	
									USC	90021 LA - N Westmoreland #	16.6	-D	0.35	25.0	0.084	3.1	0.43	
									99		999.9	B	0.30	25.0	0.214	9.7	0.98	
													0.30	25.0	0.199	6.2	0.72	
									CDMG	24400 LA - Obregon Park	13.9	AQD	0.50	35.0	0.144	5.2	0.59	
									99		999.9	-	0.40	35.0	0.450	16.1	2.18	
													0.40	35.0	0.400	22.9	2.53	
									USC	90022 LA - S Grand Ave #	14.5	-D	0.30	25.0	0.122	3.5	0.29	
									99		999.9	C	0.35	25.0	0.191	8.6	0.75	
													0.28	25.0	0.149	8.0	1.19	
									USC	90091 LA - Saturn St #	20.8	-D	0.28	25.0	0.041	2.0	0.59	
									99		999.9	C	0.25	25.0	0.099	6.1	0.68	
													0.23	25.0	0.141	4.5	0.58	
									USC	90023 LA - W 70th St #	16.3	-D	0.30	25.0	0.077	2.8	0.45	
									99		999.9	C	0.30	25.0	0.198	19.5	2.49	
													0.20	25.0	0.151	8.7	1.51	
									USC	90017 LA - Wonderland Ave #	24.6	-A	0.55	25.0	0.024	0.9	0.10	
									99		999.9	A	0.53	25.0	0.039	1.7	0.17	
													0.70	25.0	0.047	1.5	0.16	
									USC	90060 La Crescenta - New York #	22.7	-C	0.38	25.0	0.090	2.8	0.40	
									99		999.9	C	0.40	25.0	0.134	11.7	1.18	
													0.30	25.0	0.141	10.9	1.69	
									USC	90074 La Habra - Briarcliff #	13.5	-C	0.50	25.0	0.064	2.6	0.31	
									99		999.9	C	0.25	25.0	0.183	9.9	2.23	
													0.25	25.0	0.131	7.3	1.10	
									USC	90072 La Puente - Rimgrove Av #	11.9	-D	0.45	25.0	0.076	2.5	0.19	
									99		999.9	C	0.18	25.0	0.143	6.2	1.04	
													0.50	21.5	0.118	5.9	0.42	
									CDMG	24271 Lake Hughes #1	74.7	APC	-99.					
									99		999.9	-	0.90	20.0	0.035	2.5	0.19	
													0.80	20.0	0.029	1.6	0.18	
									USC	90084 Lakewood - Del Amo Blvd #	20.9	-D	0.30	25.0	0.126	3.4	0.55	
									99		999.9	C	0.30	25.0	0.277	28.5	4.52	
													0.30	25.0	0.178	11.8	2.13	
									CDMG	24526 Lancaster - Med Off FF	69.5	IQC	1.30	35.0	0.027	0.8	0.03	
									99		999.9	-	0.80	25.0	0.067	2.5	0.16	
													0.60	25.0	0.071	2.8	0.17	
									USC	90045 Lawndale - Osage Ave #	25.1	-D	0.33	25.0	0.031	2.0	0.26	

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3) Description		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	H/F			HP (hz)	LP (hz)				
									99		999.9	C	0.35	25.0	0.066	5.3	0.89	
													0.38	25.0	0.053	5.3	0.71	
								CDMG	14395	LB - Harbor Admin FF	34.2	IQD	0.20	25.0	0.028	1.6	0.40	
									99		999.9	-	0.60	30.0	0.058	4.1	0.63	
													0.25	25.0	0.071	7.3	0.85	
								USC	90080	LB - Orange Ave #	18.3	-D	0.55	25.0	0.136	3.4	0.38	
									99		999.9	-	0.12	25.0	0.255	32.9	4.83	
													0.28	25.0	0.149	10.3	1.36	
								CDMG	14242	LB - R. Los Cerritos	26.0	IQD	0.70	35.0	0.084	2.8	0.21	
									99		999.9	-	0.25	40.0	0.159	16.9	2.90	
													0.50	35.0	0.194	17.2	2.21	
								CDMG	14241	LB - Recreation Park	30.5	IQD	0.60	20.0	0.038	1.6	0.23	
									02		999.9	-	0.20	30.0	0.058	3.1	0.80	
													0.30	25.0	0.051	6.8	1.64	
								CDMG	24055	Leona Valley #5 - Ritter	61.3	IQC	1.00	25.0	0.029	1.0	0.07	
									99		999.9	-	0.80	25.0	0.047	2.1	0.14	
													0.80	30.0	0.056	2.7	0.19	
								CDMG	24309	Leona Valley #6	64.8	I-D	1.00	25.0	0.024	1.0	0.10	
									99		999.9	-	1.00	25.0	0.036	1.6	0.10	
													0.80	25.0	0.053	1.9	0.11	
								USC	90050	Malibu - Las Flores Canyon #	46.3	-B	0.65	25.0	0.015	1.0	0.13	
									99		999.9	B	0.65	25.0	0.065	2.3	0.14	
													0.65	25.0	0.055	2.2	0.32	
								CDMG	24396	Malibu - Point Dume Sch	65.3	AMB	0.35	30.0	0.029	1.9	0.15	
									99		999.9	-	0.35	25.0	0.048	2.4	0.32	
													0.60	20.0	0.040	2.0	0.18	
								USC	90051	Malibu - W Pacific Cst Hwy #	60.0	-B	0.38	25.0	0.029	1.6	0.24	
									99		999.9	B	0.40	25.0	0.038	2.5	0.28	
													0.70	25.0	0.032	2.3	0.22	
								USC	90046	Manhattan Beach - Manhattan #	28.9	-C	-99.					
									99		999.9	C	0.40	25.0	0.054	5.8	0.85	
													-99.					
								USC	90062	Mill Creek, Angeles Nat For #	34.5	-B	0.70	25.0	0.040	1.6	0.10	
									99		999.9	C	0.40	25.0	0.089	4.0	0.52	
													0.63	25.0	0.071	3.3	0.32	
								CDMG	24283	Moorpark - Fire Sta	27.1	AQD	1.00	25.0	0.019	1.0	0.08	
									99		999.9	-	0.80	15.0	0.039	3.1	0.26	
													0.50	15.0	0.042	2.5	0.26	
								CDMG	24399	Mt Wilson - CIT Seis Sta	21.2	IGA	0.40	40.0	0.119	3.3	0.25	
									01		999.9	-	0.60	40.0	0.123	3.3	0.37	
													0.70	40.0	0.186	4.6	0.21	
								USC	90009	N Hollywood - Coldwater Can #	30.8	-C	0.20	25.0	0.059	2.7	0.49	
									99		999.9	B	0.20	25.0	0.116	6.2	0.97	
													0.30	25.0	0.250	14.3	1.11	
								CDMG	24279	Newhall - Fire Sta	55.2	AQD	1.00	25.0	0.038	1.0	0.09	

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									99		999.9	-	0.50	15.0	0.044	2.9	0.31
													0.60	15.0	0.060	2.9	0.41
								USC	90056	Newhall - W Pico Canyon #	57.1	-C	0.30	25.0	0.035	1.7	0.17
									99		999.9	-	0.28	25.0	0.088	5.6	0.47
													0.38	25.0	0.055	3.9	0.32
								USC	90003	Northridge - Saticoy St #	39.8	-D	0.25	25.0	0.084	2.4	0.41
									99		999.9	C	0.23	25.0	0.161	8.5	0.72
													0.20	25.0	0.118	5.1	0.83
								USGS	634	Norwalk - Imp Hwy, S Grnd	17.2	IHD	0.60	45.0	0.096	2.9	0.30
									02		999.9	-	0.15	40.0	0.107	8.4	1.40
													0.15	45.0	0.248	20.7	4.21
								USGS	697	Orange Co. Reservoir	23.0	APB	1.00	35.0	0.126	2.7	0.19
									99		999.9	-	0.40	30.0	0.185	10.2	0.96
													0.30	30.0	0.198	6.1	0.74
								USC	90049	Pacific Palisades - Sunset #	38.6	-B	0.28	25.0	0.035	1.3	0.25
									99		999.9	C	0.45	25.0	0.063	2.0	0.28
													0.50	25.0	0.038	2.0	0.33
								CDMG	24088	Pacoima Kagel Canyon	37.9	AMB	0.50	35.0	0.055	2.7	0.30
									99		999.9	-	0.35	20.0	0.166	6.2	0.68
													0.45	20.0	0.164	6.8	0.87
								USC	90005	Pacoima Kagel Canyon USC #	34.0	-D	0.53	25.0	0.076	4.0	0.57
									99		999.9	B	0.30	25.0	0.119	7.9	1.07
													0.23	25.0	0.133	5.5	0.60
								USC	90007	Panorama City - Roscoe #	33.0	-D	0.25	25.0	0.079	2.8	0.50
									99		999.9	B	0.25	23.5	0.105	7.2	0.81
													0.20	25.0	0.108	7.2	1.48
								CDMG	80046	Pasadena - Brown Gym	15.5	-QD	0.50	40.0	0.161	3.7	0.48
									99		999.9	-	0.35	30.0	0.165	13.2	2.09
													0.35	30.0	0.149	9.1	1.24
								CDMG	80053	Pasadena - CIT Athenaeum	15.4	CQD	0.50	30.0	0.125	4.8	0.44
									99		999.9	B	0.30	40.0	0.174	11.5	1.68
													0.30	35.0	0.101	6.0	0.74
								CDMG	80052	Pasadena - CIT Bridge Lab	15.5	-QD	0.70	40.0	0.132	3.6	0.28
									99		999.9	-	0.40	35.0	0.184	10.3	1.13
													0.25	35.0	0.147	15.0	2.72
								CDMG	80047	Pasadena - CIT Calif Blvd	15.5	AQD	0.30	40.0	0.171	7.0	0.58
									99		999.9	-	0.30	40.0	0.177	8.1	0.96
													0.30	35.0	0.271	15.4	2.33
								CDMG	80051	Pasadena - CIT Indust. Rel	15.5	BQD	0.50	40.0	0.184	5.5	0.45
									99		999.9	-	0.30	25.0	0.239	8.4	0.99
													0.30	30.0	0.228	13.8	1.95
								CDMG	80049	Pasadena - CIT Keck Lab	15.5	-QD	0.60	60.0	0.096	4.0	0.41
									99		999.9	-	0.40	35.0	0.152	5.1	0.60
													0.25	35.0	0.188	14.1	2.63
								CDMG	80054	Pasadena - CIT Kresge Lab	17.4	-QD	0.50	45.0	0.081	3.3	0.37

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
								99		999.9	-	0.40	40.0	0.112	8.0	0.99
												0.60	40.0	0.089	3.8	0.28
							CDMG	80048	Pasadena - CIT Lura St	15.5	AQD	0.43	50.0	0.236	5.0	0.61
								99		999.9	-	0.40	40.0	0.360	9.8	0.92
												0.30	40.0	0.352	18.1	2.35
							CDMG	80050	Pasadena - CIT Mudd Lab	15.5	-QD	0.70	30.0	0.134	3.9	0.36
								99		999.9	-	0.40	30.0	0.137	9.4	1.30
												0.30	35.0	0.163	15.1	2.23
							USC	90095	Pasadena - Old House Rd #	14.5	-C	0.25	25.0	0.102	3.5	0.89
								99		999.9	C	0.28	25.0	0.231	10.6	1.58
												0.23	25.0	0.258	8.0	1.23
							USC	90047	Playa Del Rey - Saran #	28.8	-D	0.35	25.0	0.018	1.2	0.22
								99		999.9	E	0.40	25.0	0.025	2.5	0.47
												0.38	25.0	0.034	2.5	0.32
							CDMG	23525	Pomona - 4th & Locust FF	28.8	IQD	0.80	40.0	0.055	1.3	0.13
								99		999.9	C	0.50	30.0	0.067	3.4	0.35
												0.55	30.0	0.056	2.5	0.22
							CDMG	23497	Rancho Cucamonga - Law & J	44.3	IHD	0.70	40.0	0.044	0.9	0.09
								99		999.9	B	0.60	50.0	0.060	1.5	0.18
												0.60	50.0	0.050	1.4	0.16
							USC	90044	Rancho Palos Verdes - Luconia #	37.7	-C	0.55	21.5	0.017	0.9	0.11
								99		999.9	C	0.45	21.5	0.021	2.0	0.28
												0.53	25.0	0.021	1.6	0.24
							CDMG	13123	Riverside Airport	56.8	AQB	3.00	50.0	0.044	0.7	0.01
								99		999.9	B	1.70	35.0	0.050	1.4	0.05
												2.00	45.0	0.047	1.4	0.04
							CDMG	24274	Rosamond - Goode Ranch	86.0	IQC	0.40	30.0	0.021	1.2	0.11
								99		999.9	-	0.40	20.0	0.070	3.8	0.39
												0.50	20.0	0.065	3.2	0.31
							USC	90019	San Gabriel - E Grand Av #	9.0	-A	0.35	25.0	0.227	5.5	0.44
								99		999.9	A	0.35	25.0	0.304	23.0	3.34
												0.35	25.0	0.199	11.0	1.04
							CDMG	24401	San Marino, SW Academy	14.7	AQD	0.60	40.0	0.142	5.4	0.74
								99		999.9	-	0.40	40.0	0.128	5.6	0.58
												0.40	40.0	0.204	12.8	2.60
							USC	90077	Santa Fe Springs - E Joslin #	10.8	-D	0.25	25.0	0.206	6.7	1.03
								99		999.9	C	0.35	25.0	0.426	38.1	3.54
												0.35	25.0	0.443	21.7	3.00
							USC	90048	Santa Monica - Second St #	32.6	-B	0.53	25.0	0.021	0.8	0.13
								99		999.9	B	0.53	25.0	0.033	2.7	0.28
												0.28	25.0	0.034	4.1	0.60
							USC	90010	Studio City - Coldwater Can #	28.7	-D	0.35	25.0	0.073	2.8	0.37
								99		999.9	C	0.28	25.0	0.177	14.2	1.15
												0.30	25.0	0.231	13.7	1.14
							USC	90006	Sun Valley - Roscoe Blvd #	32.6	-D	0.25	25.0	0.093	3.9	0.43

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)		
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)	LP (hz)					
0090 Whittier Narrows 03		1987	1004	1059	5.3	5.3	0.0	0.0	CDMG	99		999.9	B	0.25	25.0	0.202	8.5	0.87	
														0.28	25.0	0.223	13.3	1.05	
										USC	90008	Sun Valley - Sunland #	29.3	-B	0.35	25.0	0.043	2.3	0.41
											99		999.9	B	0.30	25.0	0.075	3.4	0.73
										USC	90058	Sunland - Mt Gleason Ave #	27.5	-C	0.38	25.0	0.074	3.2	0.30
											99		999.9	B	0.30	25.0	0.072	3.5	0.50
										CDMG	24514	Sylmar - Olive View Med FF	47.7	AQD	0.28	25.0	0.089	4.5	0.73
											99		999.9	C	0.50	25.0	0.072	4.0	0.59
										USC	90001	Sylmar - Sayre St #	38.6	-D	0.35	20.0	0.042	1.7	0.18
											99		999.9	B	0.40	20.0	0.065	4.4	0.67
										CDMG	24436	Tarzana, Cedar Hill	43.0	A-B	0.25	25.0	0.055	3.2	0.46
											99		999.9	-	0.33	25.0	0.051	4.2	0.65
										USC	90082	Terminal Island - S Seaside #	35.7	-D	0.28	25.0	0.046	2.7	0.41
											99		999.9	C	0.70	40.0	0.248	5.9	0.31
										USC	90038	Torrance - W 226th St #	31.4	-E	0.60	40.0	0.449	20.1	1.29
											99		999.9	E	0.60	40.0	0.644	22.9	1.68
										CDMG	24047	Vasquez Rocks Park	52.4	IBA	0.28	25.0	0.021	1.2	0.32
											99		999.9	-	0.20	25.0	0.042	3.9	0.97
										USC	90090	Villa Park - Serrano Av #	30.1	-B	0.28	25.0	0.041	3.1	0.97
											99		999.9	B	0.40	25.0	0.025	1.2	0.26
										USC	90071	West Covina - S Orange #	10.5	-B	0.23	25.0	0.031	2.6	0.65
											99		999.9	C	0.28	25.0	0.051	2.4	0.48
										USGS	289	Whittier N. Dam upstream	12.3	IHD	0.90	35.0	0.039	1.1	0.09
											01		999.9	-	1.00	25.0	0.060	2.1	0.12
										CDMG	24461	Alhambra - Fremont Sch	12.6*	AMD	1.00	25.0	0.060	2.3	0.11
											00		999.9	B	0.50	25.0	0.033	1.3	0.11
										CDMG	24402	Altadena - Eaton Canyon	16.1*	AQD	0.70	25.0	0.046	1.4	0.13
											00		999.9	-	0.55	25.0	0.072	2.6	0.27
CDMG	14368	Downey - Co Maint Bldg	20.5*	AQD	0.50	25.0	0.131	3.7	0.23										
	00		999.9	-	0.23	25.0	0.137	10.6	1.84										
CMDG	14196	Inglewood - Union Oil	27.3*	IQD	0.23	25.0	0.179	7.0	1.79										
			999.9	-	0.55	50.0	0.505	7.1	0.31										
					0.20	50.0	0.229	17.8	2.62										
					0.40	40.0	0.316	12.0	1.36										

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)										
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)	LP (hz)													
										00		999.9	-	0.40	30.0	0.110	6.9	0.93									
																							0.40	30.0	0.157	9.2	0.98
																							0.70	30.0	0.036	1.4	0.12
																							0.40	30.0	0.166	10.6	1.13
																							0.15	30.0	0.151	10.1	1.06
																							0.80	35.0	0.040	2.5	0.19
																							0.30	30.0	0.065	6.2	1.08
																							0.30	30.0	0.134	11.2	1.07
																							0.60	25.0	0.027	1.0	0.13
																							0.50	20.0	0.056	2.6	0.31
																							0.50	25.0	0.079	3.8	0.45
																							0.45	35.0	0.098	3.7	0.35
																							0.55	25.0	0.374	14.5	0.98
																							0.30	30.0	0.261	24.0	2.57
																							0.50	35.0	0.086	2.2	0.16
																							0.70	35.0	0.158	5.7	0.25
																							0.70	40.0	0.142	4.6	0.20
																							0.60	40.0	0.079	2.7	0.26
																							0.50	40.0	0.156	7.8	1.02
													0.30	50.0	0.212	12.9	1.51										
													1.00	35.0	0.037	1.4	0.09										
													0.50	30.0	0.074	2.8	0.23										
													1.00	25.0	0.113	4.5	0.31										
0091	Superstn Hills (A) 00	1987	1124	0514	6.3	5.8	6.2	0.0	USGS	5210 00	Wildlife Liquef. Array	24.7 999.9	IQD -	0.20 0.20 0.20	50.0 50.0 50.0	0.186 0.132 0.134	4.6 12.7 13.4	2.2 7.3 5.2									
0092	Superstn Hills (B) 00	1987	1124	1316	6.7	0.0	6.6	0.0	USGS	5060 00	Brawley	18.2 999.9	AQD C	-99. 0.10 0.13													
														23.0	0.156	13.9	5.4										
														20.0	0.116	17.2	8.6										
								USGS	5061 00	Calipatria Fire Station	28.3 999.9	BQD C	-99. 0.23 0.23														
														20.0	0.180	15.5	3.3										
														18.0	0.247	14.6	3.1										
								CDMG	01335 00	El Centro Imp. Co. Cent	13.9 999.9	AQD C	0.10 0.10 0.10	47.0 40.0 38.0	0.128 0.358 0.258	8.4 46.4 40.9	4.9 17.5 20.2										
								USGS	temp 00	Kornbloom Road (temp)	19.7 999.9	— -	-99. 0.13 0.15														
														25.0	0.121	19.2	6.3										
														23.0	0.136	31.1	7.4										
								USGS	5051 00	Parachute Test site	0.7 999.9	AQD B	-99. 0.06 0.12														
														20.0	0.455	112.0	52.8										
														23.0	0.377	43.9	15.2										
								USGS	5052 00	Plaster City	21.0 999.9	AQD C	-99. 0.30 0.20														
														20.0	0.121	9.5	1.9										
														18.0	0.186	20.6	5.4										

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
0093	Spitak, Armenia 03	1988	1207		6.8	0.0	7.0	0.0	USGS	temp 00	Poe Road (temp)	12.4 999.9	— -	-99. 0.20	23.0	0.446	35.7	8.8
									0.07	23.0	0.300	32.8	11.5					
									USGS	5062 00	Salton Sea Wildlife Refuge	27.1 999.9	AQD D	-99. 0.25	22.0	0.119	7.9	2.1
									0.20	30.0	0.167	18.3	4.3					
									USGS	286 00	Superstition Mtn.	4.3 999.9	AGA B	-99. 0.30	20.0	0.682	32.5	4.7
									0.30	25.0	0.894	42.2	7.3					
									CDMG	11369 00	Westmorland Fire Sta	13.3 999.9	ADD C	0.10 0.10	50.0 35.0	0.249 0.172	8.7 23.5	4.2 13.0
									0.10	40.0	0.211	31.0	20.3					
									USGS	5210 00	Wildlife Liquef. Array	24.4 999.9	IQD -	0.10 0.10	50.0 50.0	0.408 0.181	6.0 29.9	3.9 19.9
									0.10	40.0	0.207	34.5	21.0					
									0.50	25.0	0.119	8.8	4.3					
									0.50	25.0	0.199	28.6	9.8					
									0.50	25.0	0.175	15.1	4.3					
									0.20	42.0	0.093	8.3	4.43					
									0.20	30.0	0.172	26.0	12.64					
0094	Loma Prieta 03	1989	1018	0005	6.9	0.0	7.1	0.0	CDMG	57066 99	Agnews State Hospital	28.2 27.0	AQD C	0.20 0.20	42.0 30.0	0.093 0.159	8.3 17.6	4.43 9.75
									0.20	30.0	0.061	4.7	2.20					
									BYU	0 99	Alameda Naval Air Stn Hanger 23	999.9 75.2	-E C	0.10 0.10	00.0 00.0	0.268 0.209	22.0 42.5	5.15 14.07
									0.10	00.0	0.209	42.5	14.07					
									USGS	1652 99	Anderson Dam (Downstream)	21.4 20.0	AFD B	0.20 0.20	48.0 41.0	0.151 0.244	9.9 20.3	3.17 7.73
									0.20	40.0	0.240	18.4	6.73					
									USGS	1652 99	Anderson Dam (L. Abut)	21.4 20.0	AQA B	0.10 0.10	41.0 32.0	0.053 0.064	9.3 12.2	4.07 11.87
									0.10	41.0	0.077	10.0	5.54					
									USGS	1002 99	APEEL 2 - Redwood City	47.9 999.9	IQD D	0.10 0.10	40.0 27.0	0.083 0.274	9.5 53.6	3.15 12.68
									0.10	22.0	0.220	34.3	6.87					
									CDMG	58393 99	APEEL 2E Hayward Muir Sch	57.4 56.3	ABD C	0.20 0.20	40.0 30.0	0.095 0.171	3.8 13.7	2.40 3.89
									0.20	25.0	0.139	11.5	5.65					
									CDMG	58219 99	APEEL 3E Hayward CSUH	57.1 56.0	ABA B	0.20 0.20	38.0 30.0	0.047 0.078	4.2 5.6	3.33 3.93
									0.20	30.0	0.084	6.4	3.57					
									CDMG	58378 99	APEEL 7 - Pulgas	47.7 46.5	IEA B	0.10 0.10	30.0 30.0	0.061 0.156	6.2 16.1	3.08 7.75
									0.10	22.0	0.088	15.7	8.41					
									USGS	1161 99	APEEL 9 - Crystal Springs Res	46.9 46.4	IQA B	0.20 0.20	40.0 40.0	0.049 0.113	7.2 15.6	2.11 5.78

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
													0.20	40.0		0.104	18.1	8.11
								CDMG	58373	APEEL 10 - Skyline	47.8	I-A	0.10	30.0		0.037	8.0	3.71
								99			46.6	B	0.10	25.0		0.103	13.9	8.55
													0.10	20.0		0.088	24.0	7.35
								CDMG	58262	Belmont - Envirotech	49.9	BFA	0.20	38.0		0.041	4.5	2.46
								99			48.7	B	0.20	22.0		0.108	11.8	3.30
													0.20	30.0		0.110	16.2	5.71
								CDMG	58471	Berkeley LBL	83.6	-A	0.20	20.0		0.039	3.9	1.40
								99			999.9	B	0.20	20.0		0.057	9.2	1.78
													0.20	18.0		0.117	20.9	4.44
								UCSC	13	BRAN	10.3	-A	0.10			0.507	17.9	4.17
								99			999.9	-	0.10			0.453	51.3	8.37
													0.10			0.501	44.6	4.86
								CDMG	47125	Capitola	14.5	AQC	0.20	50.0		0.541	19.4	2.60
								99			8.6	C	0.20	48.0		0.529	36.5	9.11
													0.20	40.0		0.443	29.3	5.50
								CDMG	57007	Corralitos	5.1	APB	0.20	32.0		0.455	17.7	7.11
								02			0.0	B	0.20	40.0		0.644	55.2	10.88
													0.20	40.0		0.479	45.2	11.37
								CDMG	57504	Coyote Lake Dam (Downst)	22.3	IHD	0.10	30.0		0.095	9.9	4.51
								02			21.7	B	0.10	30.0		0.160	13.0	6.11
													0.10	29.0		0.179	22.6	13.20
								CDMG	57217	Coyote Lake Dam (SW Abut)	21.8	IFA	0.10	50.0		0.076	8.6	3.21
								02			999.9	-	0.10	31.0		0.151	16.2	7.37
													0.10	33.0		0.484	39.7	15.17
								USGS	1515	Foster City - 355 Menhaden	51.2	---	0.10	50.0		0.075	5.8	2.70
								99			999.9	-	0.10	28.0		0.107	20.6	8.05
													0.10	30.0		0.116	20.4	3.94
								USGS	1686	Fremont - Emerson Court	43.4	AQB	0.10	38.0		0.067	8.6	6.37
								99			42.4	-	0.10	31.0		0.192	12.7	5.50
													0.10	32.0		0.141	12.9	8.37
								CDMG	57064	Fremont - Mission San Jose	43.0	AMB	0.20	32.0		0.080	8.5	5.30
								99			42.0	B	0.20	24.0		0.124	11.5	5.43
													0.20	28.0		0.106	8.8	4.36
								CDMG	47006	Gilroy - Gavilan Coll.	11.6	AFB	0.20	50.0		0.191	12.0	5.77
								99			10.9	B	0.20	45.0		0.357	28.6	6.35
													0.20	35.0		0.325	22.3	4.59
								CDMG	57476	Gilroy - Historic Bldg.	12.7	BQD	0.20	52.0		0.149	11.1	6.03
								02			12.3	-	0.20	38.0		0.284	42.0	11.10
													0.20	40.0		0.241	24.0	3.66
								CDMG	47379	Gilroy Array #1	11.2	IFA	0.20	52.0		0.209	14.0	5.59
								99			10.5	A	0.20	50.0		0.411	31.6	6.38
													0.20	50.0		0.473	33.9	8.03
								CDMG	47380	Gilroy Array #2	12.7	IQD	0.20	40.0		0.294	14.6	4.66
								99			12.1	C	0.20	40.0		0.367	32.9	7.15

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
								CDMG	47381 99	Gilroy Array #3	14.4 14.0	IHD C	0.20 0.10	31.0 50.0	0.322 0.338	39.1 15.5	12.07 7.03
													0.10	40.0	0.367	44.7	19.25
								CDMG	57382 99	Gilroy Array #4	16.1 15.8	AHD C	0.20 0.20	42.0 28.0	0.159 0.417	14.6 38.8	5.10 7.09
													0.20	30.0	0.212	37.9	10.08
								CDMG	57383 99	Gilroy Array #6	19.9 19.9	IKB B	0.20 0.20	32.0 38.0	0.101 0.126	9.5 12.8	4.10 4.74
													0.20	31.0	0.170	14.2	3.79
								CDMG	57425 99	Gilroy Array #7	24.2 24.3	AHB C	0.20 0.20	48.0 40.0	0.115 0.226	5.6 16.4	2.87 2.52
													0.20	35.0	0.323	16.6	3.26
								USGS	1678 99	Golden Gate Bridge	85.1 999.9	-A B	0.20 0.20	30.0 22.0	0.056 0.233	11.3 38.1	3.81 11.45
													0.20	27.0	0.123	17.8	2.92
								CDMG	57191 02	Halls Valley	31.6 29.3	IFC C	0.20 0.20	28.0 22.0	0.056 0.134	8.4 15.4	4.07 3.30
													0.20	22.0	0.103	13.5	5.46
								CDMG	58498 99	Hayward - BART Sta	58.9 57.7	I-D B	0.20 0.20	40.0 31.0	0.082 0.159	4.7 15.1	2.76 3.72
													0.20	36.0	0.156	10.6	3.33
								USGS	1028 99	Hollister City Hall	28.2	CHD C	0.10 0.10	32.0 29.0	0.216 0.247	14.9 38.5	7.11 17.83
													0.10	30.0	0.215	45.0	26.10
								USGS	1656 99	Hollister Diff. Array	25.8 999.9	IQD -	0.10 0.10	38.0 40.0	0.154 0.269	8.4 43.9	4.19 18.48
													0.10	33.0	0.279	35.6	13.05
								USGS	1032 99	Hollister - SAGO Vault	30.6 29.9	FGA A	0.10 0.10	40.0 32.0	0.042 0.036	5.0 7.1	3.95 4.55
													0.10	31.0	0.060	8.4	4.89
								CDMG	47524 99	Hollister - South & Pine	28.8 999.9	IQD -	0.10 0.10	31.0 29.0	0.197 0.371	15.1 62.4	7.06 30.28
													0.10	23.0	0.177	29.1	18.13
								UCSC	16 99	LGPC	6.1 999.9	-A -	0.10 0.10		0.890 0.563	54.9 94.8	17.56 41.18
													0.10		0.605	51.0	11.50
								CDMG	47377 99	Monterey City Hall	44.8 42.7	CGA A	0.20 0.20	32.0 28.0	0.032 0.073	2.7 3.5	0.92 1.41
													0.20	22.0	0.063	5.8	2.89
								CDMG	58224 99	Oakland - Title & Trust	77.4 76.3	BBD C	0.20 0.20	49.0 38.0	0.148 0.195	6.8 19.9	1.81 3.54
													0.20	44.0	0.244	36.1	7.20
								CDMG	58264 99	Palo Alto - 1900 Embarc.	36.1 34.8	BQD -	0.20 0.20	50.0 32.0	0.080 0.204	7.3 22.0	3.33 11.67

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
									USGS	1601 Palo Alto - SLAC Lab	36.3	AMA	0.20	30.0	0.213	39.6	17.13	
									99		35.0	C	0.20	40.0	0.090	10.2	2.82	
													0.20	33.0	0.194	37.5	9.96	
													0.20	28.0	0.278	29.3	9.72	
									CDMG	58338 Piedmont Jr High	78.3	I-A	0.20	32.0	0.026	2.5	1.91	
									99		77.2	A	0.20	27.0	0.084	8.2	2.94	
													0.20	28.0	0.071	9.1	3.35	
									CDMG	58043 Point Bonita	88.6	AFA	0.20	21.0	0.034	7.2	2.67	
									99		999.9	A	0.20	22.0	0.071	11.4	3.98	
													0.20	20.0	0.072	12.9	3.93	
									CDMG	58505 Richmond City Hall	93.1	I-D	0.20	30.0	0.032	4.4	1.27	
									99		999.9	C	0.20	25.0	0.124	17.3	2.59	
													0.20	29.0	0.106	14.2	3.91	
									CDMG	47189 SAGO South - Surface	34.7	IGB	0.10	29.0	0.060	7.8	5.86	
									99		34.1	B	0.10	25.0	0.073	10.5	6.40	
													0.10	30.0	0.067	9.6	6.42	
									CDMG	47179 Salinas - John & Work	32.6	AHD	0.10	42.0	0.101	6.7	2.38	
									99		31.4	C	0.10	30.0	0.091	10.7	8.56	
													0.10	28.0	0.112	15.7	7.87	
									CDMG	58065 Saratoga - Aloha Ave	13.0	AQD	0.10	58.0	0.389	26.9	15.15	
									99		11.7	B	0.10	38.0	0.512	41.2	16.21	
													0.10	50.0	0.324	42.6	27.53	
									CDMG	58235 Saratoga - W Valley Coll.	13.7	AQD	-99.					
									99		12.0	B	0.10	38.0	0.255	42.4	19.55	
													0.10	49.0	0.332	61.5	36.40	
									CDMG	58132 SF - Cliff House	84.4	CFA	0.20	29.0	0.062	7.7	2.38	
									99		999.9	-	0.20	22.0	0.075	10.8	4.35	
													0.20	28.0	0.108	19.8	5.06	
									CDMG	58130 SF - Diamond Heights	77.0	BBA	0.20	30.0	0.043	6.7	2.07	
									99		75.9	B	0.20	30.0	0.098	10.0	2.10	
													0.20	22.0	0.113	13.1	3.36	
									CDMG	58131 SF - Pacific Heights	81.6	BFA	0.20	24.0	0.031	6.0	2.87	
									99		80.5	A	0.20	22.0	0.061	12.8	3.45	
													0.20	20.0	0.047	9.2	2.92	
									CDMG	58222 SF - Presidio	83.1	IFA	0.10	31.0	0.058	11.7	4.07	
									99		999.9	-	0.10	32.0	0.099	12.9	4.32	
													0.10	32.0	0.200	32.4	5.86	
									CDMG	58151 SF - Rincon Hill	79.7	IFA	0.20	39.0	0.029	3.6	2.38	
									99		78.5	A	0.20	41.0	0.078	6.7	2.58	
													0.20	40.0	0.092	10.4	3.91	
									CDMG	58133 SF - Telegraph Hill	82.0	CFA	0.10	22.0	0.026	3.0	1.55	
									99		999.9	-	0.10	29.0	0.036	3.3	1.40	
													0.10	28.0	0.077	6.7	4.45	
									CDMG	58223 SF Intern. Airport	64.4	AHD	0.20	38.0	0.065	5.2	2.47	
									99		63.2	C	0.20	31.0	0.236	25.5	4.20	

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)										
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)				LP (hz)									
0095	Georgia, USSR 99	1991	0615	0059	0.0	0.0	6.2	0.0	CDMG	58539 99	So. San Francisco, Sierra Pt.	68.2 67.6	AFA A	0.20 0.06 0.06 0.06	30.0 30.0 35.0 30.0	0.329 0.034 0.056 0.105	27.9 4.7 7.1 8.8	6.03 3.35 5.18 4.59								
									USGS	17 99	Stanford Park. Garage	36.3 999.9	— -	-99. 0.10 -99.	70.0	0.254	38.5	15.89								
									USGS	1695 99	Sunnyvale - Colton Ave.	28.8 27.5	AHD C	0.10 0.10 0.10	50.0 40.0 32.0	0.104 0.207 0.209	8.6 37.3 36.0	4.06 19.11 16.90								
									CDMG	58117 99	Treasure Island	82.9 999.9	B-D D	0.10 0.10 0.10	21.0 28.0 30.0	0.016 0.100 0.159	1.2 15.6 32.8	1.44 4.41 11.52								
									UCSC	15 01	UCSC	18.1 999.9	-B -	0.10 0.10 0.10		0.223 0.309 0.396	6.7 10.3 13.2	1.77 2.80 2.32								
									CDMG	58135 01	UCSC Lick Observatory	17.9 12.5	AKA E	0.20 0.20 0.20	50.0 40.0 40.0	0.367 0.450 0.395	10.6 18.7 17.6	5.39 3.84 5.00								
									UCSC	14 99	WAHO	16.9 999.9	AQD -	0.10 0.10 0.10		0.267 0.370 0.638	12.0 27.2 38.0	2.01 3.84 5.85								
									CDMG	58127 99	Woodside	39.9 38.7	APB B	0.10 0.10 0.10	31.0 25.0 25.0	0.050 0.080 0.082	6.2 13.7 16.7	2.80 8.47 8.89								
									CDMG	58163 99	Yerba Buena Island	80.6 79.5	AFA A	0.20 0.20 0.20	32.0 22.0 31.0	0.028 0.029 0.068	3.8 4.2 13.4	1.82 1.45 3.26								
									18 99	Ambralaurei	73.7* 999.9	A-A -	0.10 0.10 0.10		0.007 0.018 0.016	1.0 1.8 1.3	0.31 0.54 0.39									
									21 99	Baz	49.0* 999.9	A-D -	0.10 0.10 0.10		0.016 0.033 0.038	1.4 2.2 2.0	0.39 0.40 0.35									
									19 99	Iri	36.4* 999.9	A-D -	0.20 0.20 0.20		0.045 0.117 0.111	2.9 7.4 7.9	0.59 0.96 0.81									
									20 99	Oni	52.0* 999.9	A-D -	0.20 0.20 0.20		0.018 0.075 0.046	1.2 3.1 2.6	0.32 0.40 0.44									
									22 99	Zem	56.9* 999.9	A-D -	0.20 0.20 0.20		0.026 0.061 0.065	2.1 4.7 4.0	0.62 0.83 0.49									
									0096	Erzican, Turkey	1992	0313		6.9	0.0	0.0	0.0	95	Erzincan	2.0	-D	0.20		0.248	18.3	7.86

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)			
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)						
	99									99		999.9	C	0.10 0.10		0.515 0.496	83.9 64.3	27.35 22.78		
0097	Cape Mendocino 02	1992	0425	1806	7.1	0.0	7.1	0.0	CDMG	89005	Cape Mendocino #	8.5	IFA	0.07	23.0	0.754	63.0	109.48		
										01		999.9	A	0.07	23.0	1.497	127.4	41.01		
														0.07	23.0	1.039	42.0	12.39		
											CDMG	89509	Eureka - Myrtle & West #	44.6	IHD	0.16	23.0	0.042	7.5	2.92
										99		35.8	B	0.16	23.0	0.154	20.2	5.89		
														0.16	23.0	0.178	28.3	11.41		
											CDMG	89486	Fortuna - Fortuna Blvd #	23.6	IQD	0.07	23.0	0.049	5.8	3.72
										99		13.7	B	0.07	23.0	0.116	30.0	27.59		
														0.07	23.0	0.114	21.7	12.79		
											CDMG	89156	Petrolia #	9.5	IMD	0.07	23.0	0.163	24.5	31.78
										01		0.0	C	0.07	23.0	0.590	48.4	21.74		
														0.07	23.0	0.662	89.7	29.55		
	CDMG	89324	Rio Dell Overpass - FF #	18.5	APC	0.07	23.0	0.195	10.6	7.07										
	01			12.3	B	0.07	23.0	0.385	43.9	22.03										
						0.07	23.0	0.549	42.1	18.62										
	CDMG	89530	Shelter Cove Airport #	33.8	IFB	0.50	23.0	0.054	2.0	0.33										
	99			32.6	B	0.50	23.0	0.229	7.1	0.39										
						0.50	23.0	0.189	6.6	0.57										
0098	Landers 00	1992	0628	1158	7.3	0.0	7.4	0.0	CDMG	21081	Amboy #	69.2	AAB	0.10	23.0	0.090	11.0	3.25		
										99		68.3	A	0.10	23.0	0.115	18.3	11.16		
														0.10	23.0	0.146	20.0	7.38		
											USC	90088	Anaheim - W Ball #	134.0	-D	0.20	25.0	0.017	3.0	1.27
										99		999.9	C	0.13	25.0	0.047	10.8	5.91		
														0.12	25.0	0.035	10.5	4.01		
											USC	90099	Arcadia - Arcadia Av #	137.1	-D	0.53	25.0	0.015	2.1	0.48
										99		999.9	C	0.20	25.0	0.031	6.1	2.91		
														0.10	25.0	0.027	10.2	6.77		
											USC	90093	Arcadia - Campus Dr #	135.5	-D	0.25	25.0	0.023	3.4	1.26
										99		999.9	C	0.18	25.0	0.046	9.8	3.66		
														0.12	25.0	0.051	12.6	7.27		
											CDMG	32075	Baker Fire Station #	88.5	A-D	0.10	23.0	0.056	4.9	3.52
										99		88.3	B	0.10	23.0	0.108	9.4	6.35		
														0.10	23.0	0.106	11.0	7.96		
											USC	90069	Baldwin Park - N Holly #	131.6	-D	0.28	25.0	0.020	4.2	1.25
										99		999.9	B	0.15	25.0	0.028	8.7	5.03		
														0.12	25.0	0.026	7.4	5.04		
	CDMG	23559	Barstow #	36.1	IQD	0.07	23.0	0.066	7.7	4.38										
	99			37.7	B	0.07	23.0	0.132	21.9	20.59										
						0.07	23.0	0.135	25.8	18.67										
	USC	90094	Bell Gardens - Jaboneria #	153.9	-D	0.65	25.0	0.016	1.1	0.18										
	99			999.9	C	0.30	25.0	0.036	4.7	1.48										
						0.18	25.0	0.044	10.5	4.74										

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
								USC	90061 Big Tujunga, Angeles Nat F #	144.3	-C	0.30	25.0	0.015	2.8	0.98
								99		999.9	B	0.33	25.0	0.025	3.2	0.65
												0.30	25.0	0.025	3.4	0.69
								CDMG	33083 Boron Fire Station #	90.6	A-D	0.07	23.0	0.054	5.1	3.15
								99		92.4	B	0.07	23.0	0.119	12.9	9.14
												0.07	23.0	0.090	9.6	3.70
								USC	90087 Brea - S Flower Av #	136.5	-D	0.20	25.0	0.018	3.7	1.30
								99		999.9	C	0.13	25.0	0.036	11.0	6.15
												0.12	25.0	0.045	11.3	7.55
								USC	90086 Buena Park - La Palma #	148.6	-D	0.55	25.0	0.009	0.9	0.18
								99		999.9	C	0.18	25.0	0.045	11.5	4.81
												0.15	25.0	0.052	8.8	5.64
								USC	90012 Burbank - N Buena Vista #	162.1	-D	0.33	25.0	0.023	4.7	1.03
								99		999.9	C	0.25	25.0	0.049	7.2	2.18
												0.28	25.0	0.068	10.4	2.86
								USC	90052 Calabasas - N Las Virg #	194.1	-B	0.50	25.0	0.013	1.4	0.31
								99		999.9	B	0.28	25.0	0.018	2.8	0.81
												0.20	22.5	0.012	2.5	0.95
								USC	90004 Chatsworth - Devonshire #	176.8	-D	0.20	25.0	0.018	3.8	1.31
								99		999.9	C	0.23	25.0	0.031	4.2	1.50
												0.07	25.0	0.033	6.5	5.97
								USC	90078 Compton - Castlegate #	161.2	-D	1.25	25.0	0.020	0.8	0.07
								99		999.9	C	0.15	22.5	0.065	12.2	4.99
												0.15	25.0	0.063	13.1	4.05
								SCE	23 Coolwater	21.2	-D	0.10	30.0	0.174	9.9	4.01
								99		22.8	B	0.10	30.0	0.283	25.6	13.74
												0.10	30.0	0.417	42.3	13.76
								USC	90070 Covina - W Badillo #	128.3	-D	0.15	25.0	0.029	6.1	2.42
								99		999.9	C	0.13	25.0	0.057	15.8	9.60
												0.28	25.0	0.046	7.5	2.09
								CDMG	12149 Desert Hot Springs #	23.2	AQD	0.07	23.0	0.167	9.9	3.71
								99		22.5	B	0.07	23.0	0.171	20.2	13.87
												0.07	23.0	0.154	20.9	7.78
								CDMG	14368 Downey - Co Maint Bldg #	157.0	AQD	0.07	23.0	0.016	6.4	4.46
								99		999.9	-	0.07	23.0	0.051	18.3	24.03
												0.07	23.0	0.039	11.3	10.32
								USC	90067 Duarte - Mel Canyon Rd #	126.4	-B	0.28	25.0	0.019	4.0	1.14
								99		999.9	B	0.28	25.0	0.026	3.5	0.86
												0.30	25.0	0.017	2.8	1.05
								USC	90066 El Monte - Fairview Av #	136.1	-D	0.25	25.0	0.021	3.8	1.30
								99		999.9	C	0.09	25.0	0.037	11.8	9.40
												0.23	25.0	0.038	7.4	2.58
								CDMG	13122 Featherly Park #	121.9	AMC	0.16	23.0	0.026	2.2	1.25
								99		999.9	-	0.16	23.0	0.051	7.0	3.63
												0.16	23.0	0.052	4.6	2.66

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									CDMG	24577 Fort Irwin #	64.2	-D	0.07	23.0	0.056	5.6	3.90
									99		65.0	B	0.07	23.0	0.114	9.7	3.66
													0.07	23.0	0.122	16.4	21.81
									USC	90002 Fountain Valley - Euclid #	148.8	-D	0.90	25.0	0.014	1.0	0.11
									99		999.9	C	0.13	25.0	0.069	14.7	7.87
													0.13	25.0	0.058	10.3	4.70
									USC	90063 Glendale - Las Palmas #	147.9	-C	1.10	25.0	0.027	1.0	0.07
									99		999.9	C	0.30	25.0	0.044	6.4	1.07
													0.28	25.0	0.071	4.1	0.74
									USC	90065 Glendora - N Oakbank #	122.2	-D	0.38	25.0	0.030	2.8	0.60
									99		999.9	B	0.30	25.0	0.039	5.1	1.36
													0.28	25.0	0.063	9.9	2.79
									USC	90073 Hacienda Heights - Colima #	136.0	-C	0.20	25.0	0.027	2.9	1.11
									99		999.9	C	0.28	25.0	0.058	8.5	2.63
													0.25	25.0	0.046	5.7	1.31
									CDMG	12331 Hemet Fire Station #	69.5	AQD	0.16	23.0	0.063	3.0	1.60
									99		69.1	C	0.16	23.0	0.081	5.6	1.36
													0.16	23.0	0.097	5.7	2.27
									USC	90083 Huntington Bch - Waikiki #	153.3	-D	0.63	25.0	0.012	1.0	0.15
									99		999.9	C	0.14	25.0	0.056	9.5	5.09
													0.12	25.0	0.059	10.8	4.07
									CDMG	12026 Indio - Coachella Canal #	55.7	IQD	0.10	23.0	0.042	6.6	3.99
									99		54.9	C	0.10	23.0	0.104	9.6	5.05
													0.10	23.0	0.109	15.2	9.69
									CDMG	14196 Inglewood - Union Oil #	166.9	IQD	0.07	23.0	0.015	4.8	5.52
									99		999.9	-	0.07	23.0	0.043	15.7	19.03
													0.07	23.0	0.035	10.5	9.99
									CDMG	22170 Joshua Tree #	11.6	AGC	0.07	23.0	0.181	15.0	9.39
									99		11.3	B	0.07	23.0	0.274	27.5	9.82
													0.07	23.0	0.284	43.2	14.51
									CDMG	14403 LA - 116th St School #	164.0	AQD	0.07	23.0	0.013	5.2	4.36
									99		999.9	-	0.07	23.0	0.042	14.1	17.91
													0.07	23.0	0.042	12.1	13.75
									USC	90025 LA - E Vernon Av #	157.7	-D	0.38	25.0	0.019	2.2	0.61
									99		999.9	C	0.13	25.0	0.034	7.7	4.64
													0.18	25.0	0.039	8.9	4.24
									USC	90034 LA - Fletcher Dr #	152.3	-D	0.20	22.5	0.024	3.1	0.62
									99		999.9	C	0.28	25.0	0.045	6.2	1.48
													0.28	25.0	0.040	4.0	1.10
									USC	90032 LA - N Figueroa St #	148.7	-C	0.40	25.0	0.016	2.3	0.52
									99		999.9	B	0.35	25.0	0.030	3.6	1.09
													0.38	25.0	0.037	4.3	1.09
									USC	90021 LA - N Westmoreland	159.2	-D	0.53	25.0	0.016	1.9	0.38
									99		999.9	B	0.38	25.0	0.044	3.7	0.81
													0.25	25.0	0.036	3.9	1.31

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners				
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)
								CDMG	24400 LA - Obregon Park #	151.4	AQD	0.07	23.0	0.020	4.1	3.72
								99		999.9	-	0.07	23.0	0.043	1	16.38
												0.07	23.0	0.065	7.6	5.83
								USC	90022 LA - S Grand Ave #	161.1	-D	0.40	25.0	0.014	1.9	0.51
								99		999.9	C	0.28	25.0	0.028	4.7	1.64
												0.18	25.0	0.035	6.6	2.88
								USC	90020 LA - W 15th St #	161.2	-C	0.30	25.0	0.015	3.3	1.02
								99		999.9	C	0.09	25.0	0.029	7.8	5.44
												0.30	25.0	0.036	6.3	1.89
								USC	90023 LA - W 70th St #	167.8	-D	0.35	25.0	0.014	1.8	0.56
								99		999.9	C	0.18	25.0	0.055	9.6	3.06
												0.20	25.0	0.049	11.3	3.93
								USC	90060 La Crescenta - New York #	147.9	-C	0.50	25.0	0.014	1.9	0.32
								99		999.9	C	0.40	25.0	0.024	2.7	0.56
												0.30	25.0	0.030	4.3	1.11
								USC	90074 La Habra - Briarcliff #	142.8	-C	0.53	25.0	0.026	2.2	0.44
								99		999.9	C	0.25	25.0	0.051	10.0	3.84
												0.23	25.0	0.053	9.5	3.04
								USC	90072 La Puente - Rimgrove Av #	132.0	-D	0.25	25.0	0.017	3.5	0.77
								99		999.9	C	0.13	25.0	0.035	8.3	4.39
												0.12	25.0	0.043	8.1	5.42
								USC	90084 Lakewood - Del Amo Blvd #	155.8	-D	0.50	25.0	0.016	1.7	0.35
								99		999.9	C	0.16	25.0	0.054	14.1	4.88
												0.15	25.0	0.050	12.8	5.14
								USC	90080 LB - Orange Av #	164.5	-D	0.50	25.0	0.019	1.6	0.30
								99		999.9	-	0.15	25.0	0.055	9.5	4.23
												0.15	25.0	0.061	11.1	4.40
								SCE	24 Lucerne #	1.1	A-A	0.00	60.0	0.805	41.2	43.88
								99		999.9	A	0.00	60.0	0.730	145.3	162.70
												0.00	60.0	0.797	32.3	39.40
								USGS	100 Mission Creek Fault	999.9	-	0.05		0.085	4.3	1.69
								99		27.8	B			0.126	6.8	2.31
												0.05		0.125	23.0	24.44
								USGS	5071 Morongo Valley	19.3	AHC			0.160	9.3	3.33
								99		17.7	B			0.188	16.6	9.45
														0.140	20.2	6.33
								USGS	5070 North Palm Springs	24.2	AHD			0.112	7.2	2.40
								99		27.7	B			0.136	11.0	4.97
														0.134	14.5	5.57
								USC	90003 Northridge - Saticoy St #	176.5	-D	0.20	25.0	0.017	4.5	1.69
								99		999.9	C	0.08	25.0	0.036	12.2	8.82
												0.07	25.0	0.036	15.9	17.06
								CDMG	12025 Palm Springs Airport #	37.5	IQD	0.07	23.0	0.108	6.8	3.08
								99		36.7	C	0.07	23.0	0.076	10.9	6.95
												0.07	23.0	0.089	13.8	5.29

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									CDMG	23525 99	Pomona - 4th & Locust # 117.0 117.6	IQD C	0.12 0.12 0.12	23.0 23.0 23.0	0.035 0.067 0.044	2.8 12.8 8.6	1.54 6.95 3.52
									CDMG	12168 99	Puerta La Cruz # 95.9 93.1	AQB B	0.30 0.30 0.30	23.0 23.0 23.0	0.038 0.047 0.044	1.7 2.0 2.0	0.48 0.41 0.63
									CDMG	13123 99	Riverside Airport # 96.1 96.2	AQB B	0.16 0.16 0.16	23.0 23.0 23.0	0.040 0.043 0.041	1.7 3.0 3.2	1.01 1.62 1.38
									CDMG	23542 99	San Bernardino-E & Hospitalit 80.5 79.9	-D C	0.10 0.10 0.10	50.0 50.0 50.0	0.065 0.078 0.087	7.5 19.8 14.6	2.64 10.49 7.63
									USC	90019 99	San Gabriel - E Grand Av # 141.6 999.9	-A A	0.16 0.07 0.13	22.5 25.0 25.0	0.022 0.041 0.036	6.3 14.1 9.6	2.97 15.03 6.03
									USC	90077 99	Santa Fe Springs - E Joslin # 150.4 999.9	-D C	0.35 0.18 0.15	25.0 25.0 25.0	0.024 0.060 0.047	1.5 5.9 9.2	0.47 2.67 4.23
									CDMG	12206 99	Silent Valley - Poppet Flat # 51.7 51.3	IGA A	0.12 0.12 0.12	23.0 23.0 23.0	0.038 0.050 0.040	3.2 3.8 5.1	2.08 2.03 3.88
									USC	90008 99	Sun Valley - Sunland # 162.6 999.9	-B B	1.00 0.33 0.45	25.0 25.0 25.0	0.012 0.027 0.021	0.9 2.6 2.9	0.08 0.71 0.60
									USC	90006 99	Sun Valley - Roscoe Blvd # 167.8 999.9	-D B	0.12 0.07 0.18	25.0 25.0 25.0	0.021 0.039 0.028	4.4 18.1 7.0	2.48 18.27 2.62
									USC	90058 99	Sunland - Mt Gleason Av # 151.1 999.9	-C B	0.20 0.33 0.25	25.0 25.0 25.0	0.021 0.029 0.031	2.8 5.3 6.0	0.91 1.40 1.70
									CDMG	24436 99	Tarzana - Cedar Hill # 175.6 999.9	A-B -	0.12 0.12 0.12	23.0 23.0 23.0	0.026 0.066 0.043	2.5 9.5 5.4	1.16 5.83 3.18
									USC	90089 99	Tustin - E Sycamore # 134.0 999.9	-D C	0.28 0.13 0.23	25.0 25.0 25.0	0.017 0.044 0.046	3.3 14.2 6.6	0.97 5.90 2.11
									CDMG	22161 99	Twentynine Palms # 42.2 41.9	AGA A	0.12 0.12 0.12	23.0 23.0 23.0	0.040 0.080 0.060	3.3 3.7 4.9	1.93 2.34 4.30
									USC	90090 99	Villa Park - Serrano Av # 131.4 999.9	-B B	0.20 0.11 0.18	25.0 25.0 25.0	0.021 0.028 0.035	2.8 8.0 7.0	0.93 5.32 3.51
									USC	90071 99	West Covina - S Orange # 132.4 999.9	-B C	0.25 0.28 0.13	25.0 25.0 25.0	0.023 0.048 0.048	5.7 8.7 15.1	2.38 2.30 12.06

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3) Description H/F	Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)		
		YR	MODY	HRMN	M	ML	MS	OTH				HP (hz)	LP (hz)						
									CDMG	22074	Yermo Fire Station #	24.9	AQD	0.07	23.0	0.136	12.9	4.82	
										99	1	26.3	C	0.07	23.0	0.245	51.5	43.81	
														0.07	23.0	0.152	29.7	24.69	
0099	Big Bear 99	1992	0628	1506	6.4	6.5	6.6	0.0	CDMG	23542	San Bernardino-E & Hospitality	999.9	-D	0.10	50.0	0.073	4.5	1.12	
										99		999.9	C	0.10	50.0	0.092	13.8	3.53	
														0.10	50.0	0.101	11.9	3.35	
0100	Northridge 02	1994	0117	1231	6.7	6.6	6.7	0.0	CDMG	24461	Alhambra - Fremont School	35.7	AMD	0.12	25.0	0.046	4.6	1.12	
										99		36.1	B	0.12	25.0	0.101	10.9	2.53	
														0.12	25.0	0.079	5.0	1.43	
										CDMG	25169	Anacapa Island #	71.2	---	0.30	23.0	0.013	0.8	0.25
											99		68.2	-	0.30	23.0	0.067	3.2	0.47
															0.30	23.0	0.037	1.8	0.25
										USC	90088	Anaheim - W Ball Rd	71.1	-D	1.00	30.0	0.048	1.5	0.11
											99		999.9	C	0.23	30.0	0.072	5.2	1.00
															0.23	30.0	0.066	5.1	1.53
										CDMG	24576	Anaverde Valley - City R #	38.4	-D	0.20	46.0	0.044	4.7	1.70
											99		39.1	-	0.20	46.0	0.044	3.9	1.09
															0.20	46.0	0.060	5.5	1.54
										CDMG	24310	Antelope Buttes #	47.3	---	0.12	23.0	0.029	3.6	2.63
											99		48.4	-	0.12	23.0	0.046	3.6	2.26
															0.12	23.0	0.068	4.3	2.23
										USC	90099	Arcadia - Arcadia Av	42.5	-D	0.50	30.0	0.092	4.0	0.56
											99		40.6	C	0.25	30.0	0.104	7.3	1.59
															0.30	30.0	0.083	10.2	1.61
										USC	90093	Arcadia - Campus Dr.	44.2	-D	0.50	30.0	0.057	4.2	0.59
											99		42.4	C	0.30	30.0	0.089	4.7	1.29
															0.23	30.0	0.110	8.1	1.73
										CDMG	24087	Arieta - Nordhoff Fire Sta #	9.2	AQD	0.12	23.0	0.552	18.4	8.83
											99		3.9	-	0.12	23.0	0.344	40.6	15.04
															0.12	23.0	0.308	23.2	10.75
										USC	90069	Baldwin Park - N. Holly Ave	50.6	-D	0.70	30.0	0.045	1.7	0.23
											99		49.0	B	0.20	30.0	0.090	3.9	1.19
															0.23	30.0	0.123	8.2	1.33
										USC	90094	Bell Gardens - Jaboneria	46.6	-D	0.13	30.0	0.049	3.5	1.88
											99		42.5	C	0.13	30.0	0.098	7.4	3.50
															0.13	30.0	0.068	7.6	2.46
										USC	90014	Beverly Hills - 12520 Mulhol	20.8	-C	0.30	30.0	0.314	14.1	1.31
											99		999.9	B	0.13	30.0	0.617	40.8	8.57
															0.03	30.0	0.444	30.2	4.84
										USC	90013	Beverly Hills - 14145 Mulhol	19.6	-C	0.40	30.0	0.326	16.9	2.56
											99		999.9	C	0.13	30.0	0.416	59.0	13.14
															0.20	30.0	0.516	62.8	11.08
										USC	90061	Big Tujunga, Angeles Nat F	24.0	-C	0.30	30.0	0.172	3.8	0.56
											99		21.9	B	0.30	30.0	0.163	8.1	0.83

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3) Description No. H/F	Closest Dist (km)(4)	Site Codes (5)	Filter Corners						
		YR	MODY	HRMN	M	ML	MS	OTH				HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)		
									USC	90087	Brea - S. Flower Ave.	67.3	-D	0.30	30.0	0.245	12.7	1.12
									99			65.0	C	0.40	30.0	0.037	2.0	0.30
														0.30	30.0	0.106	6.5	0.68
														0.30	30.0	0.108	9.1	1.39
									VA	638	Brentwood V.A. Hospital	999.9	-D	0.00	00.0	0.139	9.3	2.41
									99			16.3	-	0.00	00.0	0.187	23.7	5.42
														0.00	00.0	0.165	17.6	8.39
									USC	90086	Buena Park - La Palma	64.6	-D	0.80	30.0	0.034	1.5	0.11
									99			999.9	C	0.30	30.0	0.139	10.7	1.62
														0.30	30.0	0.095	8.1	1.60
									USC	90059	Burbank - Howard Rd.	20.0	-B	0.10	30.0	0.085	3.6	1.48
									99			16.6	A	0.10	30.0	0.120	9.5	2.25
														0.10	30.0	0.163	8.5	1.81
									CDMG	25282	Camarillo	36.5	-	0.10	25.0	0.050	4.5	1.28
									99			0.0	-	0.10	25.0	0.125	10.9	3.49
														0.10	25.0	0.121	11.7	3.20
									USC	90053	Canoga Park - Topanga Can	15.8	-D	0.10	30.0	0.489	14.2	5.50
									99			999.9	C	0.05	30.0	0.356	32.1	9.13
														0.05	30.0	0.420	60.8	20.17
									USC	90057	Canyon Country - W Lost Cany	13.0	-D	0.20	30.0	0.318	20.3	5.17
									99			12.2	C	0.05	30.0	0.410	43.0	11.75
														0.10	30.0	0.482	45.1	12.58
									USC	90040	Carson - Catskill Ave	53.0	-D	0.40	30.0	0.050	2.9	0.33
									99			49.2	C	0.20	30.0	0.087	8.0	1.50
														0.30	30.0	0.083	4.8	1.05
									USC	90081	Carson - Water St.	52.2	-D	0.70	30.0	0.041	2.3	0.25
									99			999.9	C	0.20	30.0	0.089	6.4	1.58
														0.30	30.0	0.086	8.0	1.92
									CDMG	24278	Castaic - Old Ridge Route #	22.6	A-B	0.12	23.0	0.217	12.4	1.94
									99			25.4	B	0.12	23.0	0.568	52.1	4.21
														0.12	23.0	0.514	52.2	2.41
									USC	90078	Compton - Castlegate St	49.6	-D	0.40	30.0	0.046	2.6	0.42
									99			45.2	C	0.10	30.0	0.088	6.8	3.41
														0.20	30.0	0.136	7.1	2.15
									USC	90068	Covina - S. Grand Ave.	60.2	-C	0.33	30.0	0.053	3.5	0.79
									99			999.9	C	0.13	30.0	0.066	7.1	1.94
														0.20	30.0	0.062	6.9	1.43
									USC	90070	Covina - W. Badillo	56.1	-D	0.30	30.0	0.043	2.9	0.70
									99			999.9	C	0.20	30.0	0.100	5.8	1.21
														0.20	30.0	0.079	7.0	1.62
									USC	90079	Downey - Birchdale	40.7	-D	0.30	30.0	0.058	3.4	0.64
									99			999.9	C	0.30	30.0	0.165	12.1	1.52
														0.30	30.0	0.171	8.1	1.52
									CDMG	14368	Downey - Co Maint Bldg #	47.6	AQD	0.20	23.0	0.146	3.9	0.27
									99			45.1	-	0.20	23.0	0.158	13.8	2.28

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3) Description No. H/F		Closest Dist (km)(4)	Site Codes (5)	Filter Corners			PGA (g)	PGV (cm/s)	PGD (cm)
													HP (hz)	LP (hz)				
													0.20	23.0		0.230	11.3	2.14
									USC	90067	Duarte - Mel Canyon Rd.	51.6	-B	0.90	30.0	0.046	2.2	0.17
									99		50.2	B	0.10	30.0	0.079	3.4	1.84	
													0.30	30.0	0.028	2.4	0.46	
									USC	90066	El Monte - Fairview Av	47.4	-D	0.20	30.0	0.059	2.8	1.36
									99		45.5	C	0.15	30.0	0.122	9.7	4.24	
													0.30	30.0	0.163	8.8	1.88	
									CDMG	24575	Elizabeth Lake #	37.2	-D	0.16	46.0	0.050	5.7	1.46
									99		37.6	-	0.16	46.0	0.155	7.3	2.70	
													0.16	46.0	0.109	9.0	1.53	
									CDMG	13122	Featherly Park - Pk Maint Bldg #	84.2	AMC	0.30	23.0	0.024	1.6	0.24
									99		82.5	-	0.30	23.0	0.104	7.7	0.81	
													0.30	23.0	0.100	5.8	0.51	
									USC	90085	Garden Grove - Santa Rita	68.9	-D	-99				
									99		999.9	C	0.30	30.0	0.104	8.7	2.10	
													0.30	30.0	0.103	10.0	2.13	
									USC	90063	Glendale - Las Palmas	25.4	-C	0.30	30.0	0.127	4.3	0.44
									99		22.9	C	0.13	30.0	0.357	12.3	1.94	
													0.10	30.0	0.206	7.4	1.75	
									USC	90065	Glendora - N. Oakbank	30.9	-D	0.50	30.0	0.051	3.6	0.58
									99		999.9	B	0.50	30.0	0.040	3.1	0.43	
													0.10	30.0	0.092	4.9	1.75	
									USC	90073	Hacienda Hts - Colima Rd	59.1	-C	0.40	30.0	0.041	2.2	0.35
									99		57.1	C	0.40	30.0	0.067	4.8	0.72	
													0.40	30.0	0.056	3.2	0.87	
									CDMG	13660	Hemet - Ryan Airfield #	144.1	-D	0.30	46.0	0.027	2.0	0.18
									99		145.9	-	0.30	46.0	0.064	4.5	0.66	
													0.30	46.0	0.046	4.7	0.51	
									USC	90018	Hollywood - Willoughby Ave	25.7	-D	0.20	30.0	0.142	9.0	3.40
									99		999.9	B	0.10	30.0	0.136	12.8	4.82	
													0.13	30.0	0.245	33.5	6.28	
									CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	0.20	23.0	0.018	4.0	0.89
									99		68.9	-	0.20	23.0	0.091	10.1	1.13	
													0.20	23.0	0.070	13.9	1.49	
									USC	90083	Huntington Bch - Waikiki	57.4	-D	0.30	30.0	0.022	1.2	0.28
									99		999.9	C	0.20	30.0	0.086	5.0	1.63	
													0.20	30.0	0.068	7.4	1.87	
									CDMG	14196	Inglewood - Union Oil #	44.7	IQD	0.16	23.0	0.055	2.6	1.01
									99		40.0	-	0.16	23.0	0.091	7.1	2.25	
													0.16	23.0	0.101	10.3	3.15	
									USGS	0655	Jensen Filter Plant #	6.2	-D	0.30		0.400	34.1	8.89
									99		0.0	-	0.08		0.424	106.2	43.06	
													0.20		0.593	99.3	24.00	
									USGS	00000	LA Dam	2.6	-	0.13		0.424	19.5	8.71
									99		999.9	-	0.10		0.511	63.7	21.18	

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners					
		YR	MODY	HRMN	M	ML	MS	OTH	No.			Description H/F	HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)
								CDMG	14403	LA - 116th St School #	41.9	AQD	0.12		0.349	50.8	15.11
								99			38.9	-	0.70	23.0	0.061	2.8	0.30
													0.16	23.0	0.208	10.3	2.67
								CDMG	24157	LA - Baldwin Hills #	31.3	IPB	0.16	23.0	0.133	13.5	2.83
								99			26.2	-	0.16	23.0	0.091	8.4	3.29
													0.16	23.0	0.239	14.9	6.17
								USC	90054	LA - Centinela St	30.9	-D	0.16	23.0	0.168	17.6	4.79
								99			999.9	C	0.13	30.0	0.109	10.6	3.76
													0.13	30.0	0.465	19.3	3.48
								CDMG	24389	LA - Century City CC North #	25.7	IQD	0.20	30.0	0.322	22.9	5.47
								99			18.3	-	0.14	23.0	0.116	8.7	3.47
													0.14	23.0	0.256	21.1	6.68
								USC	90015	LA - Chalon Rd	23.7	-B	0.14	23.0	0.222	25.2	5.70
								99			999.9	B	0.50	30.0	0.174	8.0	1.09
													0.30	30.0	0.225	16.6	3.39
								CDMG	24592	LA - City Terrace #	37.0	-B	0.20	30.0	0.185	27.1	5.77
								99			35.4	-	0.20	46.0	0.135	7.6	1.84
													0.20	46.0	0.263	12.8	2.89
								USC	90033	LA - Cypress Ave	32.8	-C	0.20	46.0	0.316	14.1	2.42
								99			999.9	B	0.30	30.0	0.085	3.1	0.44
													0.20	30.0	0.210	17.3	2.01
								USC	90025	LA - E Vernon Ave	39.3	-D	0.13	30.0	0.149	10.0	2.23
								99			999.9	C	0.20	30.0	0.063	3.4	1.21
													0.20	30.0	0.120	9.2	1.67
								USC	90034	LA - Fletcher Dr	29.5	-D	0.10	30.0	0.153	10.1	1.79
								99			999.9	C	0.30	30.0	0.109	6.9	1.20
													0.13	30.0	0.162	10.7	2.86
								CDMG	24303	LA - Hollywood Stor FF #	25.5	IPD	0.15	30.0	0.240	26.2	3.60
								99			20.8	C	0.20	23.0	0.139	9.2	2.30
													0.20	23.0	0.231	18.3	4.81
								USC	90016	LA - N Faring Rd	23.9	-B	0.20	23.0	0.358	27.5	3.04
								99			999.9	C	0.20	30.0	0.191	8.9	1.65
													0.13	30.0	0.273	15.8	3.29
								USC	90032	LA - N. Figueroa St.	33.4	-C	0.13	30.0	0.242	29.8	4.74
								99			999.9	B	0.40	30.0	0.097	4.3	0.78
													0.30	30.0	0.128	9.6	1.43
								USC	90021	LA - N Westmoreland	29.0	-D	0.30	30.0	0.174	9.1	1.28
								99			999.9	B	0.20	30.0	0.093	6.3	1.08
													0.20	30.0	0.401	20.9	2.29
								CDMG	24400	LA - Obregon Park #	37.9	AQD	0.20	30.0	0.361	20.9	4.27
								99			35.9	-	0.20	23.0	0.115	3.7	1.27
													0.60	23.0	0.355	16.7	1.43
								CDMG	24612	LA - Pico & Sentous #	32.7	-D	0.90	23.0	0.563	24.5	2.79
								99			29.0	-	0.20	46.0	0.065	5.3	1.69
													0.20	46.0	0.103	12.2	3.71

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)					Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									USC	90022 LA - S Grand Ave	36.9	-D	0.20	46.0	0.186	14.3	2.38
									99		999.9	C	0.30	30.0	0.094	3.8	0.68
													0.30	30.0	0.290	17.9	2.42
									USC	90096 LA - S. Vermont Ave	34.7	-D	0.30	30.0	0.264	20.4	1.88
									99		999.9	C	0.30	30.0	0.165	23.4	3.57
													0.30	30.0	0.164	10.7	1.83
													0.30	30.0	0.071	6.2	1.70
									USC	90091 LA - Saturn St	30.0	-D	0.13	30.0	0.097	7.7	2.12
									99		23.2	C	0.10	30.0	0.474	34.6	6.55
													0.10	30.0	0.439	39.0	6.45
									CDMG	24611 LA - Temple & Hope #	32.3	-B	0.20	46.0	0.097	4.6	1.34
									99		29.5	-	0.20	46.0	0.126	13.9	3.15
													0.20	46.0	0.184	20.0	2.74
									CDMG	24605 LA - Univ. Hospital #	34.6	-B	0.20	46.0	0.119	6.4	1.37
									99		32.8	-	0.20	46.0	0.493	31.1	2.39
													0.20	46.0	0.214	10.8	2.37
									USC	90020 LA - W 15th St	32.4	-C	0.30	30.0	0.051	5.8	1.38
									99		999.9	C	0.13	30.0	0.104	11.6	5.73
													0.13	30.0	0.159	13.4	3.30
									USC	90017 LA - Wonderland Ave	22.7	-A	0.13	30.0	0.106	3.6	1.11
									99		999.9	A	0.13	30.0	0.112	8.7	1.79
													0.10	30.0	0.172	11.8	2.77
									CDMG	24688 LA - UCLA Grounds	14.9	--	0.08	25.0	0.265	10.2	3.08
									99		16.8	-	0.08	25.0	0.278	22.0	4.32
													0.08	25.0	0.474	22.2	7.38
									USC	90060 La Crescenta - New York	22.3	-C	0.13	30.0	0.106	3.9	0.87
									99		19.7	C	0.30	30.0	0.178	12.5	1.14
													0.10	30.0	0.159	11.3	3.00
									USC	90074 La Habra - Briarcliff	61.6	-C	0.40	30.0	0.056	2.6	0.37
									99		58.8	C	0.20	30.0	0.109	8.2	1.13
													0.20	30.0	0.206	12.3	1.23
									USC	90072 La Puente - 504 Ringrove Ave	58.9	-D	1.00	30.0	0.048	2.6	0.16
									99		57.1	C	0.80	30.0	0.109	7.9	0.70
													0.80	30.0	0.129	9.7	0.83
									CDMG	24271 Lake Hughes #1 #	36.3	APC	0.12	23.0	0.099	7.0	3.43
									99		37.7	-	0.12	23.0	0.087	9.4	3.70
													0.12	23.0	0.077	9.5	2.40
									CDMG	24469 Lake Hughes #4 - Camp Mend #	32.3	-B	0.12	23.0	0.053	4.1	3.05
									99		33.2	-	0.12	23.0	0.057	6.6	3.98
													0.12	23.0	0.084	6.2	2.27
									CDMG	24523 Lake Hughes #4B - Camp Mend #	32.3	-B	0.12	23.0	0.042	3.7	3.48
									99		34.1	-	0.12	23.0	0.036	3.2	2.21
													0.12	23.0	0.063	5.4	1.97
									USGS	127 Lake Hughes #9 #	26.8	AGA	0.08		0.079	3.6	3.56
									99		28.9	-	0.08		0.165	8.4	4.54

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners				
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)
									CDMG	24607 Lake Hughes #12A #	22.8	-C	0.08		0.217	10.1	2.77
									99		24.8	-	0.13	46.0	0.121	4.0	2.59
													0.12	46.0	0.174	11.8	4.64
													0.12	46.0	0.257	8.9	4.13
									USC	90084 Lakewood - Del Amo Blvd	59.3	-D	0.80	30.0	0.058	1.6	0.18
									99		55.6	C	0.13	30.0	0.137	11.2	1.98
													0.20	30.0	0.123	10.4	2.86
									CDMG	24475 Lancaster - Fox Airfield Grnds	51.9	-	0.15	25.0	0.045	4.1	0.88
									99		52.5	-	0.15	25.0	0.064	5.3	1.21
													0.15	25.0	0.081	7.1	1.45
									USC	90045 Lawndale - Osage Ave	42.4	-D	0.13	30.0	0.053	3.5	1.78
									99		999.9	C	0.13	30.0	0.084	8.5	2.90
													0.13	30.0	0.152	8.0	2.59
									CDMG	14560 LB - City Hall #	58.2	-D	1.20	23.0	0.021	1.2	0.11
									99		56.9	-	0.30	23.0	0.036	5.0	1.65
													0.30	23.0	0.051	4.0	1.09
									CDMG	14242 LB - Rancho Los Cerritos #	54.3	IQD	0.16	23.0	0.039	2.7	0.87
									99		50.4	-	0.16	23.0	0.065	4.8	2.30
													0.16	23.0	0.069	8.3	2.21
									CDMG	24305 Leona Valley #1 #	37.7	-	0.20	23.0	0.050	6.8	2.18
									99		999.9	-	0.20	23.0	0.089	7.8	1.63
													0.20	23.0	0.073	7.1	1.76
									CDMG	24306 Leona Valley #2 #	37.7	-	0.20	23.0	0.058	7.1	2.07
									99		999.9	-	0.20	23.0	0.091	7.5	1.63
													0.20	23.0	0.063	7.2	1.60
									CDMG	24307 Leona Valley #3 #	37.8	-	0.20	23.0	0.051	6.9	2.36
									99		999.9	-	0.20	23.0	0.084	8.5	2.24
													0.20	23.0	0.106	8.1	1.77
									CDMG	24308 Leona Valley #4 #	38.1	-	0.20	23.0	0.047	8.0	2.36
									99		999.9	-	0.20	23.0	0.079	8.6	1.77
													0.20	23.0	0.057	8.0	1.98
									CDMG	24055 Leona Valley #5 - Ritter #	38.3	IQC	0.20	23.0	0.097	11.6	2.53
									99		999.9	-	0.20	23.0	0.146	14.9	2.35
													0.20	23.0	0.092	10.5	2.70
									CDMG	24309 Leona Valley #6 #	38.5	I-D	0.20	23.0	0.062	8.2	2.02
									99		999.9	-	0.20	23.0	0.178	14.4	2.11
													0.20	23.0	0.131	10.1	1.22
									CDMG	23595 Lintlerock - Brainard Can #	46.9	-A	0.25	46.0	0.034	2.4	0.50
									99		49.7	-	0.20	46.0	0.072	6.0	1.35
													0.20	46.0	0.060	6.3	1.25
									CDMG	24396 Malibu - Point Dume Sch #	35.2	AMB	0.30	23.0	0.087	4.4	1.09
									99		27.4	-	0.30	23.0	0.130	8.5	2.11
													0.30	23.0	0.084	8.9	1.79
									USC	90046 Manhattan Beach - Manhattan	42.0	-C	0.10	30.0	0.085	5.4	2.04
									99		36.9	C	0.23	30.0	0.201	13.7	1.86

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									USC	90011 Montebello - Bluff Rd.	12.3	-D	0.05	30.0	0.128	14.6	4.64
									99		86.8	D	0.20	30.0	0.076	2.8	0.48
													0.10	30.0	0.128	5.9	2.25
									CDMG	34093 Mojave - Hwys 14 & 58 #	85.7	—	0.30	23.0	0.027	1.8	0.30
									99		999.9	-	0.30	23.0	0.037	4.5	0.79
													0.30	23.0	0.053	4.1	0.47
									CDMG	34237 Mojave - Oak Creek Canyon #	76.4	—	0.30	23.0	0.023	2.0	0.46
									99		78.5	-	0.30	23.0	0.050	3.1	0.52
													0.30	23.0	0.059	3.4	0.46
									CDMG	24283 Moorpark - Fire Sta #	28.0	AQD	0.45	23.0	0.159	7.9	0.90
									99		18.8	-	0.16	23.0	0.193	20.2	4.79
													0.16	23.0	0.292	20.7	4.24
									CDMG	23572 Mt Baldy - Elementary Sch #	71.5	-B	0.30	46.0	0.037	2.2	0.39
									99		74.0	-	0.30	46.0	0.080	3.8	0.56
													0.30	46.0	0.070	4.3	0.39
									CDMG	24399 Mt Wilson - CIT Seis Sta #	36.1	IGA	0.08		0.087	3.6	0.58
									99		37.8	-	0.08		0.234	7.4	0.70
													0.08		0.134	5.8	0.45
									USC	90009 N. Hollywood - Coldwater Can	14.6	-C	0.13	30.0	0.289	9.6	4.20
									99		8.3	B	0.10	30.0	0.298	25.0	6.46
													0.10	30.0	0.271	22.2	11.69
									CDMG	24586 Neenach - Sacatara Ck #	53.2	-D	0.12	46.0	0.047	7.2	3.10
									99		55.5	-	0.12	46.0	0.056	10.0	6.48
													0.12	46.0	0.069	13.1	8.22
									CDMG	24279 Newhall - Fire Sta #	7.1	AQD	0.12	23.0	0.548	31.5	16.27
									99		4.5	-	0.12	23.0	0.583	75.5	17.57
													0.12	23.0	0.590	97.2	38.05
									USC	90056 Newhall - W. Pico Canyon Rd.	7.1	-C	0.05	30.0	0.290	37.2	13.29
									99		7.1	-	0.05	30.0	0.455	92.8	56.64
													0.10	30.0	0.325	67.4	16.11
									CDMG	13160 Newport Bch - Irvine Ave. F.S. #	87.6	—	0.20	23.0	0.017	2.3	0.75
									99		85.3	-	0.20	23.0	0.041	4.1	1.29
													0.20	23.0	0.061	5.2	1.36
									CDMG	13610 Newport Bch - Newp & Coast #	84.6	-B	0.17	46.0	0.021	2.2	0.66
									99		84.4	-	0.12	46.0	0.103	5.8	1.21
													0.12	46.0	0.085	6.3	1.34
									USC	90003 Northridge - 17645 Satcoy St	13.3	-D	-99				
									99		0.1	C	0.10	30.0	0.368	28.9	8.44
													0.10	30.0	0.477	61.5	22.06
									USC	90049 Pacific Palisades - Sunset Blvd	26.2	-B	0.10	30.0	0.179	14.7	3.98
									99		17.1	C	0.05	30.0	0.469	31.0	5.26
													0.05	30.0	0.197	14.9	5.62
									CDMG	24207 Pacoima Dam (downstr) #	8.0	AMB	0.75	23.0	0.190	14.2	1.35
									99		999.9	-	0.16	23.0	0.415	45.6	5.06

No.	Earthquake Location, Mech, Dip (1)	Date & Time		Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
								CDMG	24207 99	Pacoima Dam (upper left) #	8.0 8.1	-A -	0.16 0.16 0.16 0.16	23.0 23.0 23.0 23.0	0.434 1.229 1.585 1.285	31.3 49.6 55.7 103.9	4.80 11.75 6.06 23.80
								CDMG	24088 99	Pacoima Kagel Canyon #	8.2 8.1	AMB -	0.20 0.14 0.14	23.0 23.0 23.0	0.169 0.301 0.433	15.1 31.4 51.5	4.14 10.87 7.21
								CDMG	24521 99	Palmdale - Hwy 14 & Palmdale #	43.6 43.3	-C -	0.20 0.20 0.20	46.0 46.0 46.0	0.040 0.061 0.067	8.0 14.8 16.9	5.50 7.18 7.96
									0 99	Pardee - SCE	999.9 999.9	- -	1.50 0.50 0.40	23.0 20.0 20.0	0.384 0.657 0.406	10.9 75.2 43.6	0.50 13.16 12.09
								USC	90095 99	Pasadena - N Sierra Madre	39.2 37.4	-C C	0.40 0.30 0.20	30.0 30.0 30.0	0.141 0.245 0.174	8.4 12.3 9.6	0.57 1.09 1.53
								CDMG	23597 99	Phelan - Wilson Ranch #	86.1 89.2	-D -	0.20 0.20 0.20	46.0 46.0 46.0	0.034 0.047 0.057	2.3 5.0 4.0	0.54 1.00 1.23
								USC	90047 99	Playa Del Rey - Saran	34.2 27.9	-D E	0.10 0.10 0.10	30.0 30.0 30.0	0.055 0.136 0.076	8.4 18.6 13.8	4.33 4.51 6.88
								CDMG	25148 99	Point Mugu - Laguna Peak #	47.6 38.9	-A -	0.30 0.30 0.30	23.0 23.0 23.0	0.067 0.134 0.223	3.4 10.2 19.1	0.47 1.36 1.87
								CDMG	24281 99	Port Hueneme - Naval Lab. #	54.3 50.0	- -	0.14 0.14 0.14	23.0 23.0 23.0	0.037 0.103 0.086	2.3 7.8 7.7	1.17 2.23 3.08
								CDMG	23598 99	Rancho Cucamonga - Deer Can #	80.0 999.9	-A -	0.30 0.30 0.30	46.0 46.0 46.0	0.025 0.071 0.051	2.2 4.2 5.9	0.40 0.56 0.78
								CDMG	14404 99	Rancho Palos Verdes - Hawth #	55.2 999.9	-A -	0.30 0.30 0.30	23.0 23.0 23.0	0.043 0.072 0.054	1.8 5.0 3.5	0.39 0.73 0.98
								USC	90044 99	Rancho Palos Verdes - Luconia	57.4 999.9	-C C	0.20 0.30 0.30	30.0 30.0 30.0	0.075 0.167 0.118	3.6 9.9 9.2	0.67 0.87 0.69
								DWP	77 99	Rinaldi Receiving Sta #	7.1 0.0	-C C			0.852 0.838 0.472	50.7 166.1 73.0	11.65 28.78 19.76
								CDMG	13123 99	Riverside - Airport #	101.3 100.4	AQB B	0.30 0.30 0.30	23.0 23.0 23.0	0.022 0.059 0.064	2.3 2.7 3.1	0.39 0.28 0.50
								CDMG	14405 99	Rolling Hills Est-Rancho Vista	46.6 48.4	- -	0.15 0.15	25.0 25.0	0.041 0.116	2.4 8.9	0.44 1.41

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3) Description		Closest Dist (km)(4)	Site Codes (5)	Filter Corners				
		YR	MODY	HRMN	M	ML	MS	OTH	No.	H/F			HP (hz)	LP (hz)	PGA (g)	PGV (cm/s)	PGD (cm)
									CDMG	24092 Rosamond - Airport #	65.0	—	0.15	25.0	0.106	5.8	1.17
									99		65.5	-	0.30	23.0	0.023	1.4	0.36
													0.30	23.0	0.075	4.7	0.43
													0.30	23.0	0.039	3.5	0.75
									CDMG	23672 San Bernardino - CSUSB Gr #	103.1	-D	0.30	46.0	0.021	1.5	0.25
									99		105.7	-	0.30	46.0	0.034	2.8	0.31
													0.30	46.0	0.069	4.0	0.77
									CDMG	23542 San Bernardino - E & Hosp #	108.1	-D	0.20	46.0	0.044	2.6	0.51
									99		110.4	C	0.20	46.0	0.085	5.9	0.97
													0.20	46.0	0.096	6.5	1.34
									USC	90019 San Gabriel - E. Grand Ave.	41.7	-A	0.10	30.0	0.073	3.7	1.49
									99		39.5	A	0.13	30.0	0.141	9.6	2.21
													0.10	30.0	0.256	9.8	2.79
									CDMG	12673 San Jacinto - CDF Fire Sta #	146.5	-D	0.16	46.0	0.022	3.7	1.27
									99		149.1	-	0.16	46.0	0.081	8.1	1.62
													0.16	46.0	0.099	7.7	1.56
									CDMG	24401 San Marino, SW Academy #	35.1	AQD	0.60	23.0	0.083	3.7	0.41
									99		35.2	-	0.30	23.0	0.116	7.3	1.10
													0.60	23.0	0.150	7.4	0.75
									CDMG	14159 San Pedro - Palos Verdes #	59.9	—	0.30	23.0	0.070	3.0	0.30
									99		56.7	-	0.30	23.0	0.101	5.6	0.59
													0.30	23.0	0.095	6.6	1.02
									CDMG	24644 Sandberg - Bald Mtn #	43.4	-B	0.12	46.0	0.044	6.4	3.66
									99		999.9	-	0.12	46.0	0.091	12.2	4.73
													0.12	46.0	0.098	8.9	4.61
									CDMG	25091 Santa Barbara - UCSB Goleta #	111.3	—	0.20	23.0	0.039	2.9	0.74
									99		109.3	-	0.20	23.0	0.078	7.0	1.46
													0.20	23.0	0.069	6.7	1.57
									USC	90077 Santa Fe Spr - E. Joslin	52.5	-D	0.40	30.0	0.052	2.6	0.32
									99		48.9	C	0.30	30.0	0.135	9.5	1.13
													0.30	30.0	0.123	7.0	0.96
									CDMG	24538 Santa Monica City Hall #	27.6	-D	0.14	23.0	0.230	14.3	4.17
									99		21.1	-	0.14	23.0	0.883	41.7	15.09
													0.14	23.0	0.370	25.1	7.16
									USGS	5108 Santa Susana Ground #	19.3	—	-99.				
									99		3.7	-	0.20		0.279	19.4	4.11
															0.290	19.7	7.45
									CDMG	14578 Seal Beach - Office Bldg #	64.9	-D	0.16	46.0	0.037	2.0	1.90
									99		63.9	-	0.16	46.0	0.061	5.8	1.99
													0.16	46.0	0.084	6.9	1.34
									USGS	0637 Sepulveda VA #	8.9	-D	0.10		0.467	33.2	9.58
									99		0.4	-	0.10		0.753	84.8	18.68
													0.00		0.939	76.6	14.95
									USC	90055 Simi Valley - Katherine Rd	14.6	-B	0.30	30.0	0.402	13.1	2.18
									99		0.0	E	0.50	30.0	0.877	40.9	5.29

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
													0.40	30.0	0.640	37.8	5.09
								MWD	78	Stone Canyon #	22.2	--	0.08		0.181	6.1	2.42
									99		999.9	-	0.03		0.252	28.0	3.14
													0.03		0.388	38.0	4.60
								USC	90006	Sun Valley - Roscoe Blvd	12.3	-D	0.10	30.0	0.306	12.5	5.00
									99		6.1	B	0.10	30.0	0.303	22.1	7.84
													0.10	30.0	0.443	38.2	10.04
								USC	90058	Sunland - Mt Gleason Ave	17.7	-C	0.10	30.0	0.193	11.6	2.35
									99		14.7	B	0.05	30.0	0.127	13.8	5.54
													0.05	30.0	0.157	14.5	4.29
								DWP	74	Sylmar - Converter Sta #	6.2	-D			0.586	34.6	25.44
									99		0.2	C			0.612	117.4	53.47
															0.897	102.8	46.99
								DWP	75	Sylmar - Converter Sta East #	6.1	-D			0.377	24.3	7.30
									99		0.0	C			0.828	117.5	34.22
															0.493	74.6	28.69
								CDMG	24514	Sylmar - Olive View Med FF #	6.4	AQD	0.12	23.0	0.535	19.1	8.54
									99		3.6	C	0.12	23.0	0.604	78.2	16.05
													0.12	23.0	0.843	129.6	32.68
								CDMG	24436	Tarzana, Cedar Hill #	17.5	A-B	0.10	23.0	1.048	75.4	20.05
									99		4.1	-	0.10	23.0	1.779	113.6	33.22
													0.10	23.0	0.990	77.6	30.45
								USC	90082	Terminal Island - S Seaside	60.0	-D	0.13	30.0	0.048	3.1	1.54
									99		56.7	C	0.13	30.0	0.133	13.7	2.68
													0.13	30.0	0.194	12.1	2.28
								USGS	5081	Topanga - Fire Sta #	23.4	--	0.10		0.199	10.5	3.10
									99		12.6	-	0.20		0.364	17.6	2.87
													0.30		0.266	12.9	1.34
								USC	90089	Tustin - E. Sycamore	85.9	-D	0.23	30.0	0.025	1.5	0.33
									99		999.9	C	0.30	30.0	0.070	4.0	0.76
													0.40	30.0	0.074	4.5	0.42
								CDMG	24047	Vasquez Rocks Park #	24.2	IBA	0.10		0.091	6.1	1.61
									99		24.0	-	0.00		0.151	18.5	2.92
													0.08		0.139	11.2	2.89
								CDMG	25340	Ventura - Harbor & California	55.5	--	0.10	25.0	0.025	5.1	3.12
									99		56.5	-	0.10	25.0	0.054	7.9	2.65
													0.10	25.0	0.075	12.0	3.87
								USC	90090	Villa Park - Serrano Ave	79.5	-B	0.30	30.0	0.027	2.5	0.37
									99		76.9	B	0.10	30.0	0.043	3.1	1.19
													0.10	30.0	0.045	3.8	2.00
								USC	90071	West Covina - S. Orange Ave	54.1	-B	0.20	30.0	0.049	2.7	0.95
									99		52.4	C	0.20	30.0	0.063	5.9	1.34
													0.10	30.0	0.067	5.8	2.65
								USC	90075	Whittier - S. Alta Dr	51.2	-B	0.40	30.0	0.024	1.6	0.34
									99		999.9	B	0.30	30.0	0.089	7.5	1.12

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)	
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)				
0101	Kobe 00	1995	0116	2046	6.9	0.0	0.0	0.0	CEOR	0 99	Abeno	23.8 999.9	-D C	0.40	30.0	0.052	3.3	0.56
														0.24	46.0	0.034	5.8	1.32
														0.24	46.0	0.056	10.0	2.92
														0.24	46.0	0.037	7.0	2.84
									CDMG	23590	Wrightwood - Jackson Flat # 99	68.4 67.7	-A -	0.24	46.0	0.021	2.5	0.77
														0.24	46.0	0.042	5.8	2.29
									CDMG	23573	Wrightwood - Nielson Ranch # 99	85.2 84.5	- -	0.24	46.0	0.042	6.3	2.33
														0.24	46.0	0.034	1.9	0.24
									CDMG	23574	Wrightwood - Swarthout # 99	71.9 74.7	-D -	0.30	46.0	0.047	3.7	0.49
														0.30	46.0	0.060	3.7	0.52
									CEOR	0 99	Amagasaki	10.2 999.9	-D D	0.05	40.0	0.134	6.2	2.94
														0.05	40.0	0.222	20.7	9.11
														0.05	40.0	0.235	24.2	10.00
														0.10	40.0	0.360	19.0	6.31
														0.10	40.0	0.301	54.3	23.75
														0.10	40.0	0.363	46.3	24.25
														0.05	40.0	0.080	2.5	1.77
														0.05	40.0	0.093	6.0	3.27
														0.08	40.0	0.108	4.7	1.24
														0.05		0.010	1.7	0.67
														0.05		0.034	4.3	1.28
														0.05		0.042	5.3	2.08
									CEOR	0 99	Fukushima	16.8 999.9	-E D	0.10	40.0	0.200	8.9	5.23
														0.08	40.0	0.178	36.3	13.37
														0.08	40.0	0.216	33.2	15.44
														0.05		0.039	3.3	0.92
														0.05		0.141	15.6	3.08
														0.05		0.148	15.4	1.96
									CUE	0 99	Kakogawa	26.4 999.9	-E D	0.10		0.158	10.5	2.91
														0.10		0.251	18.7	5.83
														0.10		0.345	27.6	9.60
									CEOR	0 99	Kobe University	0.2 999.9	-A A	0.20	30.0	0.380	20.2	6.48
														0.10	30.0	0.290	54.8	13.61
														0.10	30.0	0.310	34.2	7.14
														0.05		0.343	38.3	10.29
														0.05		0.821	81.3	17.68
														0.05		0.599	74.3	19.95
									CEOR	0 99	Morigawachi	23.4 999.9	-E D	0.05	40.0	0.166	6.1	3.30
														0.05	40.0	0.214	26.3	11.99
														0.08	40.0	0.140	18.0	8.19
														0.05		0.041	2.5	2.00
														0.05		0.070	4.4	1.54
														0.05		0.052	4.7	1.87
									CUE	0 99	Nishi-Akashi	11.1 999.9	-E D	0.10	23.0	0.371	17.3	5.63
														0.10	23.0	0.509	37.3	9.52

No.	Earthquake Location, Mech, Dip (1)	Date & Time			Magnitude (2)				Station (3)		Closest Dist (km)(4)	Site Codes (5)	Filter Corners		PGA (g)	PGV (cm/s)	PGD (cm)
		YR	MODY	HRMN	M	ML	MS	OTH	No.	Description H/F			HP (hz)	LP (hz)			
									0	OKA	89.3	-B	0.10	23.0	0.503	36.6	11.26
									99		999.9	-	0.05		0.038	2.5	1.68
													0.05		0.081	4.8	2.12
									0	OSAJ	8.5	-E	0.05		0.059	3.2	1.62
									99		999.9	D	0.05		0.064	7.5	3.73
													0.05		0.079	18.3	9.26
													0.05		0.064	17.0	8.03
								CEOR	0	Port Island (0 m)	2.5	-E	0.10		0.562	70.3	27.33
									99		999.9	D	0.10		0.315	74.9	38.30
													0.10		0.278	54.2	27.33
								CEOR	0	Port Island (16 m)	2.5	—	0.20		0.839	34.1	15.98
									99		999.9	-	0.10		0.552	72.8	33.26
													0.10		0.535	49.4	21.80
								CEOR	0	Port Island (32 m)	2.5	—	0.10		0.204	23.7	12.00
									99		999.9	-	0.10		0.563	58.8	28.54
													0.10		0.461	43.1	19.47
								CEOR	0	Port Island (83 m)	2.5	—	0.10		0.194	26.4	12.27
									99		999.9	-	0.10		0.696	51.0	23.40
													0.10		0.324	23.3	13.07
								CEOR	0	Sakai	26.9	-E	0.05	40.0	0.101	6.4	3.98
									99		999.9	D	0.06	40.0	0.157	16.9	10.74
													0.10	40.0	0.122	14.6	8.07
								CUE	0	Shin-Osaka	15.5	-E	0.10	23.0	0.059	6.4	2.16
									99		999.9	D	0.10	23.0	0.243	37.8	8.54
													0.08	23.0	0.212	27.9	7.64
								CEOR	0	Tadoka	30.5	-D	0.05	40.0	0.137	6.0	2.61
									99		999.9	C	0.05	40.0	0.294	24.7	7.47
													0.05	40.0	0.195	14.7	9.87
								CUE	0	Takarazuka	1.2	-E		40.0	0.433	34.8	12.38
									99		999.9	D		40.0	0.693	68.3	26.65
													0.13	33.0	0.694	85.3	16.75
								CUE	0	Takatori	0.3	-E	0.20		0.272	16.0	4.47
									99		999.9	D			0.611	127.1	35.77
															0.616	120.7	32.72
									0	TOT	57.9	-B	0.05		0.015	1.3	0.80
									99		999.9	-	0.05		0.076	10.9	3.71
													0.05		0.075	7.6	4.58
								CEOR	0	Yae	26.3	-D	0.09		0.133	7.0	3.52
									99		999.9	-	0.05		0.156	21.3	9.02
													0.05		0.147	21.7	11.98

Notes:

- (1) Source mechanism: 00 = strike slip, 01 = normal, 02 = reverse, 03 = reverse-oblique, 04 = normal-oblique, 99 = unknown
Dip is the dip of rupture surface.

- (2) M is moment magnitude, UNK = Magnitude type unknown. Missing magnitudes have the value of zero.
- (3) Station numbers were assigned where not available, using numbers 1-33 and 60-100.
Records marked with a # were not processed by PE&A due to unavailability of uncorrected data
Records marked with a @ did not have Fourier spectra computed because the noise levels were too high.
H/F is the designation for the site being on the hanging wall (01) or foot wall (02), or unknown/not applicable (99).
- (4) Distances marked with a * are hypocentral instead of closest distances.
- (5) Site codes are from two sources: 1) Geomatrix (3 letter), 2) USGS (1 letter), described below.
- (6) This earthquake's recordings contain an aftershock in the data.

GEOMATRIX 3-LETTER SITE CLASSIFICATIONS

FIRST LETTER: Instrument housing

- I = Free-field instrument or instrument shelter. Instrument is located at or within several feet of the ground surface.
- A = One-story structure of lightweight construction. Instrument is located at the lowest level and within several feet of the ground surface.
- B = Two- to four-story structure of lightweight construction. Instrument is located at the lowest level and within several feet of the ground surface.
- C = Two- to four-story structure of lightweight construction. Instrument is located at the lowest level in a basement and below the ground surface.
- D = Five or more story structure of heavy construction. Instrument is located at the lowest level and within several feet of the ground surface.
- E = Five or more story structure of heavy construction. Instrument is located at the lowest level in a basement and below the ground surface.
- F = Structure housing instrument is buried below the ground surface, e.g., tunnel.
- G = Structure of light or heavyweight construction, instrument not at lowest level.
- H = Earth dam.
- I = Concrete Dam.

SECOND LETTER: Mapped local geology

Sedimentary or metasedimentary:

- H = Holocene (Recent) Quaternary (< 15000y bp).
- Q = Pleistocene Quaternary (< 2my bp).
- P = Pliocene Tertiary (< 6my bp).
- M = Miocene Tertiary (< 22my bp).
- O = Oligocene Tertiary (< 36my bp).
- E = Eocene Tertiary (< 58my bp).
- L = Paleocene Tertiary (< 63my bp).
- K = Cretaceous (< 145my bp).
- F = Franciscan Formation (Cretaceous/Late Jurassic).
- J = Jurassic (< 210my bp).
- T = Triassic (< 255my bp).
- Z = Permian or older (> 255my bp).

Igneous or meta-igneous:

- V = Volcanic (extrusive).
- N = Intrusive.
- G = Granitic.

THIRD LETTER: Geotechnical subsurface characteristics

- A = Rock. Instrument on rock ($V_s > 600$ mps) or < 5m of soil over rock.
- B = Shallow (stiff) soil. Instrument on/in soil profile up to 20m thick overlying rock.
- C = Deep narrow soil. Instrument on/in soil profile at least 20m thick overlying rock, in a narrow canyon or valley no more than several km wide.
- D = Deep broad soil. Instrument on/in soil profile at least 20m thick overlying rock, in a broad valley.
- E = Soft deep soil. Instrument on/in deep soil profile with average $V_s < 150$ mps.

USGS 1-LETTER CLASSIFICATIONS

Average shear-wave velocity to a depth of 30m is:

A = > 750 m/s

B = 360 - 750 m/s

C = 180 - 360 m/s

D = < 180 m/s

APPENDIX B CATALOG OF TIME HISTORIES FOR ANALYSES

The following tables (Table B-1 for WUS rock, Table B-2 for WUS soil, B-3 for CEUS rock, and B-4 for CEUS soil) list the selected three component recordings for each magnitude, distance, and duration bin for rock and soil site conditions. Sites are classified as rock or soil using the scheme of Geomatrix. Categories A or B are considered rock (ranging from hard California rock to very shallow soil) and categories C and D are considered soil (ranging from shallow or stiff to deep and firm). Site codes are described at the end of the catalog. Additional available source and site information (e.g. source mechanism, magnitude type, and hanging-wall/foot-wall site specification) are available in the general catalog (Appendix A). The explanation table for the general catalog (Appendix A) is shown at the end of Appendix A.

The time histories to be used for analysis are archived in a separate CD-ROM.

The tables are on the following pages:

Table B-1 (WUS rock)	B-2
Table B-2 (WUS soil)	B-23
Table B-3 (CEUS rock)	B-43
Table B-4 (CEUS soil)	B-63

TABLE B-1: WUS, ROCK
NRC TIME HISTORY LIBRARY: WUS, ROCK, M = 5-6, D=0-50 km

No.	Earthquake	Date & Time			Mag	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN						Geom	USGS	HP (hz)	LP (hz)					
0029	Lytile Creek	1970	0912	1430	5.4	CDWR	620	Devil's Canyon	21.9	CAA	-	1.10	30.00	.084	1.8	.10	1.1	DCFDWN
0029	Lytile Creek	1970	0912	1430	5.4	CDWR	620	Devil's Canyon	21.9	CAA	-	1.00	20.00	.146	3.3	.18	1.1	DCF090
0029	Lytile Creek	1970	0912	1430	5.4	CDWR	620	Devil's Canyon	21.9	CAA	-	1.00	30.00	.151	5.6	.23	1.2	DCF180
0029	Lytile Creek	1970	0912	1430	5.4	USGS	290	Wrightwood-6074 Park Dr	15.4	BAB	B	.60	40.00	.078	2.3	.25	2.0	WTWDWN
0029	Lytile Creek	1970	0912	1430	5.4	USGS	290	Wrightwood-6074 Park Dr	15.4	BAB	B	.60	20.00	.162	10.1	1.02	1.8	WTW115
0029	Lytile Creek	1970	0912	1430	5.4	USGS	290	Wrightwood-6074 Park Dr	15.4	BAB	B	.70	30.00	.200	10.5	.62	1.7	WTW205
0042	Fruili, Italy	1976	0911	1631	5.5		8022	San Rocco	17.9	ABA	-	.40	15.00	.013	1.8	.34	5.7	SRO-UP
0042	Fruili, Italy	1976	0911	1631	5.5		8022	San Rocco	17.9	ABA	-	.20	15.00	.029	2.3	.48	3.7	SRO-NS
0042	Fruili, Italy	1976	0911	1631	5.5		8022	San Rocco	17.9	ABA	-	.40	20.00	.072	4.3	.90	.8	SRO-WE
0045	Santa Barbara	1978	0813		6.0	USGS	106	Cachuma Dam Toe	36.6	AAA	-	.20	29.00	.024	1.6	.40	5.5	CAD-UP
0045	Santa Barbara	1978	0813		6.0	USGS	106	Cachuma Dam Toe	36.6	AAA	-	.10	36.00	.072	6.3	1.26	1.4	CAD250
0045	Santa Barbara	1978	0813		6.0	USGS	106	Cachuma Dam Toe	36.6	AAA	-	.20	30.00	.034	2.6	.55	3.4	CAD340
0054	Livermore	1980	0127	0233	5.4	CDMG	58219	APEEL 3E Hayward CSUH	31.0	AVA	B	.60	25.00	.014	.9	.09	5.2	B-A3E-UP
0054	Livermore	1980	0127	0233	5.4	CDMG	58219	APEEL 3E Hayward CSUH	31.0	AVA	B	.30	20.00	.053	4.5	.58	1.2	B-A3E146
0054	Livermore	1980	0127	0233	5.4	CDMG	58219	APEEL 3E Hayward CSUH	31.0	AVA	B	.15	20.00	.028	1.4	.30	3.9	B-A3E236
0054	Livermore	1980	0127	0233	5.4	CDMG	57187	San Ramon-Eastman Kodak	17.6	ABB	C	.30	30.00	.037	4.0	.50	7.0	B-KOD-UP
0054	Livermore	1980	0127	0233	5.4	CDMG	57187	San Ramon-Eastman Kodak	17.6	ABB	C	.20	25.00	.301	19.1	2.82	.7	B-KOD180
0054	Livermore	1980	0127	0233	5.4	CDMG	57187	San Ramon-Eastman Kodak	17.6	ABB	C	.25	25.00	.097	5.6	.62	5.8	B-KOD270
0065	Mammoth Lakes	1980	0611	0441	5.0	USC	40	USC Convict Lakes	9.1	AAB	-	1.00	40.00	.038	.4	.02	1.2	H-XCV-UP
0065	Mammoth Lakes	1980	0611	0441	5.0	USC	40	USC Convict Lakes	9.1	AAB	-	2.00	30.00	.030	.6	.02	1.7	H-XCV075
0065	Mammoth Lakes	1980	0611	0441	5.0	USC	40	USC Convict Lakes	9.1	AAB	-	2.00	30.00	.046	.6	.02	.8	H-XCV165
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Free-Field	11.0	IPA	-	.30	40.00	.115	3.7	.43	2.1	C-ATC-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Free-Field	11.0	IPA	-	.30	30.00	.330	16.1	1.20	2.0	C-ATC270
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Free-Field	11.0	IPA	-	.45	40.00	.275	8.9	.46	1.8	C-ATC360
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Pad	11.0	APA	-	.30	30.00	.137	4.7	.34	2.1	C-ATP-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Pad	11.0	APA	-	.40	30.00	.378	16.1	1.03	1.9	C-ATP270
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Pad	11.0	APA	-	.40	25.00	.261	9.2	.53	1.8	C-ATP360
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	10.0	APB	-	.40	30.00	.210	4.6	.29	2.7	C-OLC-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	10.0	APB	-	.20	30.00	.387	13.8	1.59	1.7	C-OLC270
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	10.0	APB	-	.20	30.00	.370	12.4	.89	2.0	C-OLC360
0079	Coalinga	1983	0709	0740	5.2	USGS	1651	Transmitter Hill	10.4	APA	-	.30	30.00	.114	3.3	.35	3.0	C-TSM-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1651	Transmitter Hill	10.4	APA	-	.20	25.00	.205	12.0	1.34	2.2	C-TSM270

Date & Time									Closest	Site Codes		Filter			Corners				
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
0079	Coalinga	1983	0709	0740	5.2	USGS	1651	Transmitter Hill	10.4	APA	–	.30	30.00	.194	9.9	.87	2.4	C-TSM360	
0080	Coalinga	1983	0722	0239	5.8	USGS	1604	Oil City	8.2	APB	–	.60	30.00	.568	12.5	1.20	2.7	D-OLC-UP	
0080	Coalinga	1983	0722	0239	5.8	USGS	1604	Oil City	8.2	APB	–	.15	30.00	.866	42.2	6.14	1.6	D-OLC270	
0080	Coalinga	1983	0722	0239	5.8	USGS	1604	Oil City	8.2	APB	–	.80	30.00	.447	24.8	2.23	1.8	D-OLC360	
0080	Coalinga	1983	0722	0239	5.8	USGS	1609	Palmer Ave	12.2	APB	–	.20	25.00	.201	6.9	1.35	3.5	D-PLM-UP	
0080	Coalinga	1983	0722	0239	5.8	USGS	1609	Palmer Ave	12.2	APB	–	.06	20.00	.272	12.8	3.31	2.0	D-PLM270	
0080	Coalinga	1983	0722	0239	5.8	USGS	1609	Palmer Ave	12.2	APB	–	.09	20.00	.290	21.5	3.31	1.8	D-PLM360	
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5043	Hurkey Creek Park	34.9	AQB	B	.40	50.00	.097	3.6	.55	5.5	HCP-UP	
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5043	Hurkey Creek Park	34.9	AQB	B	.60	50.00	.240	7.4	.45	2.4	HCP045	
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5043	Hurkey Creek Park	34.9	AQB	B	.50	50.00	.187	9.1	.89	1.4	HCP135	
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	709	Garvey Res.-Control Bldg	12.1	APB	–	.70	40.00	.362	9.9	.75	2.6	A-GRV-UP	
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	709	Garvey Res.-Control Bldg	12.1	APB	–	.15	40.00	.384	15.8	2.49	2.5	A-GRV060	
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	709	Garvey Res.-Control Bldg	12.1	APB	–	.20	40.00	.457	19.0	4.31	2.1	A-GRV330	

NRC TIME HISTORY LIBRARY: WUS, ROCK, M=5-6, D=50-100 km

No.	Earthquake	Date & Time			Mag	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN						Geom	USGS	HP (hz)	LP (hz)					
0014	Southern Calif.	1952	1122	0746	6.0	USGS	1083	San Luis Obispo	70.0	CBB	-	.20	13.00	.028	2.4	.74	4.7	SLO-UP
0014	Southern Calif.	1952	1122	0746	6.0	USGS	1083	San Luis Obispo	70.0	CBB	-	.20	13.00	.036	2.8	.93	3.8	SLO234
0014	Southern Calif.	1952	1122	0746	6.0	USGS	1083	San Luis Obispo	70.0	CBB	-	.50	13.00	.054	3.3	.55	3.3	SLO324
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5231	Anza-Tule Canyon	55.4	AGA	B	.40	30.00	.049	2.6	.30	7.9	ATL-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5231	Anza-Tule Canyon	55.4	AGA	B	.30	30.00	.110	6.5	.71	1.8	ATL270
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5231	Anza-Tule Canyon	55.4	AGA	B	.35	35.00	.095	7.5	.71	5.8	ATL360
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	707	Lake Mathews Dike Toe	73.7	AJA	-	2.00	40.00	.039	.5	.02	8.3	LMR-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	707	Lake Mathews Dike Toe	73.7	AJA	-	1.00	50.00	.061	1.5	.08	3.4	LMR162
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	707	Lake Mathews Dike Toe	73.7	AJA	-	1.00	35.00	.046	.8	.03	6.4	LMR252
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13198	Murrieta Hot Springs	63.3	IGA	A	.50	28.00	.032	.8	.31	5.8	H01-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13198	Murrieta Hot Springs	63.3	IGA	A	.50	40.00	.053	1.8	.30	5.0	H01000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13198	Murrieta Hot Springs	63.3	IGA	A	.50	40.00	.049	1.3	.32	2.7	H01090
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	12168	Puerta La Cruz	71.9	AQB	B	.20	44.00	.035	1.6	.34	10.8	PLC-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	12168	Puerta La Cruz	71.9	AQB	B	.20	38.00	.075	2.4	.27	8.8	PLC258
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	12168	Puerta La Cruz	71.9	AQB	B	.20	32.00	.055	1.8	.32	9.0	PLC348
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13123	Riverside Airport	71.2	AQB	B	.50	48.00	.023	.6	.14	10.6	RIV-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13123	Riverside Airport	71.2	AQB	B	.50	40.00	.051	1.2	.14	10.0	RIV180
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13123	Riverside Airport	71.2	AQB	B	.50	42.00	.040	1.0	.15	6.8	RIV270
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13172	Temecula Fire Station	73.2	AQB	C	.50	27.00	.028	1.2	.24	12.0	TSF-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13172	Temecula Fire Station	73.2	AQB	C	.50	25.00	.121	6.9	.53	1.5	TFS000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13172	Temecula Fire Station	73.2	AQB	C	.50	25.00	.098	4.6	.68	3.3	TFS090
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13199	Winchester Bergman Ran	57.6	AGA	A	.50	48.00	.072	1.6	.25	3.2	H02-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13199	Winchester Bergman Ran	57.6	AGA	A	.50	42.00	.070	1.9	.19	3.9	H02000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13199	Winchester Bergman Ran	57.6	AGA	A	.50	50.00	.093	1.8	.29	3.1	H02090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas - N Las Virg #	53.3	--B	B	.40	25.00	.023	1.6	.15	12.4	A-VIR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas - N Las Virg #	53.3	--B	B	.33	25.00	.042	2.3	.35	7.2	A-VIR200
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas - N Las Virg #	53.3	--B	B	.45	25.00	.025	1.2	.13	7.4	A-VIR290
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaio-Hasley Canyon	70.9	A-B	-	.50	20.00	.021	1.5	.16	11.9	A-CSH-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaio-Hasley Canyon	70.9	A-B	-	.70	15.00	.031	1.9	.19	9.1	A-CSH000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaio-Hasley Canyon	70.9	A-B	-	.50	15.00	.035	2.6	.31	7.3	A-CSH090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	B	1.00	23.00	.026	1.1	.08	12.3	A-ORR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	B	.80	15.00	.071	4.4	.40	7.2	A-ORR000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	B	.80	20.00	.065	4.5	.38	6.4	A-ORR090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu-Point Dume Sch	65.3	AMB	B	.35	30.00	.029	1.9	.15	10.8	A-MAL-UP

Date & Time										Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Geom		USGS	HP (hz)	LP (hz)						
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu-Point Dume Sch	65.3	AMB	B	.35	25.00	.048	2.4	.32	5.5	A-MAL180	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu-Point Dume Sch	65.3	AMB	B	.60	20.00	.040	2.0	.18	5.6	A-MAL270	
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90051	Malibu-W Pacific Coast Hwy #	60.0	--	B	B	.38	25.00	.029	1.6	.24	10.8	A-WPA-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90051	Malibu-W Pacific Coast Hwy #	60.0	--	B	B	.40	25.00	.038	2.5	.28	10.3	A-WPA060
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90051	Malibu-W Pacific Coast Hwy #	60.0	--	B	B	.70	25.00	.032	2.3	.22	10.5	A-WPA150
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	3.00	50.00	.044	.7	.01	8.3	A-RIV-UP	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	1.70	35.00	.050	1.4	.05	7.0	A-RIV180	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	2.00	45.00	.047	1.4	.04	4.9	A-RIV270	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24047	Vasquez Rocks Park	52.4	IBA	B	.90	35.00	.039	1.1	.09	6.7	A-VAS-UP	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24047	Vasquez Rocks Park	52.4	IBA	B	1.00	25.00	.060	2.1	.12	4.2	A-VAS000	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24047	Vasquez Rocks Park	52.4	IBA	B	1.00	25.00	.060	2.3	.11	3.8	A-VAS090	

NRC TIME HISTORY LIBRARY: WUS, ROCK, M=6-7, D=0-10 km

		Date & Time							Closest		Site Codes		Filter		Corners		Dur	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	(s)	
0001	Helena, Montana	1935	1031	1838	6.2		2022	Carroll College	8.0	EZA	-	.20	15.00	.102	7.3	2.29	1.1	A-HMCDWN
0001	Helena, Montana	1935	1031	1838	6.2		2022	Carroll College	8.0	EZA	-	.20	15.00	.150	5.8	1.00	1.3	A-HMC180
0001	Helena, Montana	1935	1031	1838	6.2		2022	Carroll College	8.0	EZA	-	.20	15.00	.173	16.5	2.37	1.1	A-HMC270
0025	Parkfield	1966	0628	0426	6.1	CDMG	1015	Cholame #8	9.2	ABB	C	.20	24.00	.116	4.3	1.48	4.0	C08DWN
0025	Parkfield	1966	0628	0426	6.1	CDMG	1015	Cholame #8	9.2	ABB	C	.20	20.00	.246	10.2	3.60	5.9	C08050
0025	Parkfield	1966	0628	0426	6.1	CDMG	1015	Cholame #8	9.2	ABB	C	.20	20.00	.273	11.3	3.20	3.7	C08320
0025	Parkfield	1966	0628	0426	6.1	CDMG	1438	Temblor pre-1969	9.9	LJA	B	.20	16.00	.136	4.4	1.10	3.2	TMBDWN
0025	Parkfield	1966	0628	0426	6.1	CDMG	1438	Temblor pre-1969	9.9	LJA	B	.20	14.00	.357	21.5	3.87	1.3	TMB205
0025	Parkfield	1966	0628	0426	6.1	CDMG	1438	Temblor pre-1969	9.9	LJA	B	.20	15.00	.272	15.0	3.40	1.3	TMB295
0030	San Fernando	1971	0209	1400	6.6	CDMG	279	Pacoima Dam	2.8	AMB	A	.10	35.00	.699	56.5	18.25	5.5	PULDWN
0030	San Fernando	1971	0209	1400	6.6	CDMG	279	Pacoima Dam	2.8	AMB	A	.10	35.00	1.226	112.5	35.50	5.4	PUL164
0030	San Fernando	1971	0209	1400	6.6	CDMG	279	Pacoima Dam	2.8	AMB	A	.50	35.00	1.160	54.3	11.73	5.8	PUL254
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	1.264	54.2	30.15	5.1	GAZ-UP
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	.608	65.4	25.29	4.5	GAZ000
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	.718	71.6	23.71	5.4	GAZ090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57217	Coyote Lake Dam (SW Abut)	.1	IFA	-	.10	50.00	.388	15.6	2.65	3.0	CYC-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57217	Coyote Lake Dam (SW Abut)	.1	IFA	-	.10	39.00	.711	51.6	12.00	3.0	CYC195
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57217	Coyote Lake Dam (SW Abut)	.1	IFA	-	.10	45.00	1.298	80.8	9.63	1.7	CYC285
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	30.00	.405	14.1	1.86	.5	G06-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	35.00	.222	11.4	2.45	3.1	G06000
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	27.00	.292	36.7	6.12	4.5	G06090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90019	San Gabriel - E Grand Ave #	9.0	--A	A	.35	25.00	.227	5.5	.44	2.5	A-GRN-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90019	San Gabriel - E Grand Ave #	9.0	--A	A	.35	25.00	.304	23.0	3.34	2.4	A-GRN180
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90019	San Gabriel - E Grand Ave #	9.0	--A	A	.35	25.00	.199	11.0	1.04	2.8	A-GRN270
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	32.00	.455	17.7	7.11	3.5	CLS-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	40.00	.644	55.2	10.88	3.4	CLS000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	40.00	.479	45.2	11.37	4.6	CLS090
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC	6.1	--A	-	.10		.890	54.9	17.56	4.5	LGP-UP
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC	6.1	--A	-	.10		.563	94.8	41.18	5.5	LGP000
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC	6.1	--A	-	.10		.605	51.0	11.50	5.5	LGP090
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (downstr) #	8.0	AGA	A	.75	23.00	.190	14.2	1.35	3.9	PAC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (downstr) #	8.0	AGA	A	.16	23.00	.415	45.6	5.06	.6	PAC175
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (downstr) #	8.0	AGA	A	.16	23.00	.434	31.3	4.80	2.0	PAC265

		Date & Time							Closest		Site Codes		Filter Corners						
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS		HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (upper left) #	8.0	IGA	A		.16	23.00	1.229	49.6	11.75	3.0	PUL-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (upper left) #	8.0	IGA	A		.16	23.00	1.585	55.7	6.06	2.5	PUL104
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (upper left) #	8.0	IGA	A		.16	23.00	1.285	103.9	23.80	3.8	PUL194
0131	Northridge	1994	0117	1231	6.7	CDMG	24088	Pacoima Kagel Canyon #	8.2	AMB	B		.20	23.00	.169	15.1	4.14	6.9	PKC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24088	Pacoima Kagel Canyon #	8.2	AMB	B		.14	23.00	.301	31.4	10.87	5.7	PKC090
0131	Northridge	1994	0117	1231	6.7	CDMG	24088	Pacoima Kagel Canyon #	8.2	AMB	B		.14	23.00	.433	51.5	7.21	5.6	PKC360
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University	.2	--	A	A	.20	30.00	.380	20.2	6.48	2.8	KBU-UP
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University	.2	--	A	A	.10	30.00	.290	54.8	13.61	3.3	KBU000
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University	.2	--	A	A	.10	30.00	.310	34.2	7.14	3.7	KBU090
0133	Kobe	1995	0116	2046	6.9		99999	KJMA	.6	--	B	B	.05		.343	38.3	10.29	4.7	KJM-UP
0133	Kobe	1995	0116	2046	6.9		99999	KJMA	.6	--	B	B	.05		.821	81.3	17.68	4.2	KJM000
0133	Kobe	1995	0116	2046	6.9		99999	KJMA	.6	--	B	B	.05		.599	74.3	19.95	4.3	KJM090

NRC TIME HISTORY LIBRARY: WUS, ROCK, M=6-7, D=10-50 km

2-8

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0030	San Fernando	1971	0209	1400	6.6	USGS	126	Lake Hughes #4	24.2	IGA	B	.50	35.00	.164	6.4	.93	4.1	L04DWN
0030	San Fernando	1971	0209	1400	6.6	USGS	126	Lake Hughes #4	24.2	IGA	B	.50	35.00	.192	5.6	.92	3.6	L04111
0030	San Fernando	1971	0209	1400	6.6	USGS	126	Lake Hughes #4	24.2	IGA	B	.50	35.00	.153	8.4	1.85	4.1	L04201
0030	San Fernando	1971	0209	1400	6.6	CDMG	285	Santa Felita Dam (Outlet)	27.5	ABA	-	.10	20.00	.065	4.1	2.36	8.9	FSD-UP
0030	San Fernando	1971	0209	1400	6.6	CDMG	285	Santa Felita Dam (Outlet)	27.5	ABA	-	.10	20.00	.148	9.4	7.02	7.4	FSD172
0030	San Fernando	1971	0209	1400	6.6	CDMG	285	Santa Felita Dam (Outlet)	27.5	ABA	-	.10	13.00	.152	6.5	3.46	5.0	FSD262
0050	Imperial Valley	1979	1015	2316	6.5	USGS	286	Superstition Mtn Camera	26.0	AGA	B	.10	40.00	.077	2.3	1.14	5.8	H-SUP-UP
0050	Imperial Valley	1979	1015	2316	6.5	USGS	286	Superstition Mtn Camera	26.0	AGA	B	.10	40.00	.109	5.2	2.21	6.3	H-SUP045
0050	Imperial Valley	1979	1015	2316	6.5	USGS	286	Superstition Mtn Camera	26.0	AGA	B	.10	40.00	.195	8.8	2.78	2.2	H-SUP135
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54214	Long Valley Dam (L. Abut)	19.7	IVA	-	.40	50.00	.068	4.0	.45	4.6	MLLVL-UP
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54214	Long Valley Dam (L. Abut)	19.7	IVA	-	.35	50.00	.104	6.6	1.06	4.2	MLLV000
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54214	Long Valley Dam (L. Abut)	19.7	IVA	-	.20	50.00	.077	5.4	1.69	4.8	MLLV090
0061	Mammoth Lakes	1980	0527	1451	6.0	CDMG	54424	Bishop-Paradise Lodge	43.7	AVA	-	.20	50.00	.084	3.0	.77	4.6	L-BPL-UP
0061	Mammoth Lakes	1980	0527	1451	6.0	CDMG	54424	Bishop-Paradise Lodge	43.7	AVA	-	.20	40.00	.091	5.5	1.48	4.9	L-BPL070
0061	Mammoth Lakes	1980	0527	1451	6.0	CDMG	54424	Bishop-Paradise Lodge	43.7	AVA	-	.20	40.00	.114	5.3	1.41	4.3	L-BPL160
0064	Victoria, Mexico	1980	0609	0328	6.1	UNAMUCSD	6604	Cerro Prieto	34.8	AVA	B	.20	62.00	.304	12.1	4.90	5.1	CPE-UP
0064	Victoria, Mexico	1980	0609	0328	6.1	UNAMUCSD	6604	Cerro Prieto	34.8	AVA	B	.20	62.00	.621	31.6	13.20	4.4	CPE045
0064	Victoria, Mexico	1980	0609	0328	6.1	UNAMUCSD	6604	Cerro Prieto	34.8	AVA	B	.20	62.00	.587	19.9	9.40	4.2	CPE315
0076	Coalinga	1983	0502	2342	6.4	CDMG	36453	Parkfield-Fault Zone 11	28.4	IMB	-	.20	28.00	.042	4.8	1.80	8.9	H-Z11-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36453	Parkfield-Fault Zone 11	28.4	IMB	-	.20	21.00	.097	11.9	2.35	4.5	H-Z11000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36453	Parkfield-Fault Zone 11	28.4	IMB	-	.20	28.00	.087	6.6	1.83	3.6	H-Z11090
0076	Coalinga	1983	0502	2342	6.4	CDMG	36420	Parkfield-Gold Hill 3W	38.8	IPB	-	.20	36.00	.067	7.5	1.77	9.0	H-PG3-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36420	Parkfield-Gold Hill 3W	38.8	IPB	-	.20	30.00	.137	11.0	2.76	2.8	H-PG3000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36420	Parkfield-Gold Hill 3W	38.8	IPB	-	.20	30.00	.122	9.0	1.74	3.8	H-PG3090
0076	Coalinga	1983	0502	2342	6.4	CDMG	36230	Parkfield-Cholame 2E	40.5	IJB	-	.50	26.00	.017	2.3	.52	12.1	H-TM2-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36230	Parkfield-Cholame 2E	40.5	IJB	-	.50	23.00	.026	2.9	.62	8.8	H-TM2000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36230	Parkfield-Cholame 2E	40.5	IJB	-	.50	22.00	.037	5.4	1.40	7.6	H-TM2090
0076	Coalinga	1983	0502	2342	6.4	CDMG	36446	Parkfield-Vineyard Cany 4W	34.6	IMB	-	.20	30.00	.024	2.8	.64	8.2	H-VC4-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36446	Parkfield-Vineyard Cany 4W	34.6	IMB	-	.20	30.00	.064	6.5	1.37	4.3	H-VC4000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36446	Parkfield-Vineyard Cany 4W	34.6	IMB	-	.20	27.00	.046	4.2	.95	5.9	H-VC4090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57007	Corralitos	22.7	APB	B	.20	27.00	.040	4.0	.54	4.9	CLS-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57007	Corralitos	22.7	APB	B	.20	24.00	.081	6.4	1.17	4.4	CLS220
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57007	Corralitos	22.7	APB	B	.20	26.00	.109	10.8	2.13	3.4	CLS310
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	30.00	.405	14.1	1.86	.5	MHG06-UP

Date & Time																		
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	Filter	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	35.00	.222	11.4	2.45	3.1	MHG06000
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	27.00	.292	36.7	6.12	4.5	MHG06090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	47006	Gilroy - Gavilan Coll.	16.2	AFB	B	.50	42.00	.081	2.3	.41	3.6	GIL-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	47006	Gilroy - Gavilan Coll.	16.2	AFB	B	.10	30.00	.114	3.6	.87	5.0	GIL067
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	47006	Gilroy - Gavilan Coll.	16.2	AFB	B	.10	30.00	.095	2.9	.93	4.7	GIL337
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5230	Santa Rosa Mountain	43.8	AGA	-	1.00	50.00	.051	1.5	.10	6.6	ARS-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5230	Santa Rosa Mountain	43.8	AGA	-	1.50	60.00	.102	2.2	.10	6.0	ARS270
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5230	Santa Rosa Mountain	43.8	AGA	-	1.50	60.00	.103	2.2	.10	6.6	ARS360
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54214	Long Valley Dam (L. Abut)	33.4	IVA	-	.10	43.00	.074	3.3	1.45	6.4	CVLVL-UP
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54214	Long Valley Dam (L. Abut)	33.4	IVA	-	.10	50.00	.082	7.0	1.34	5.3	CVLV000
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54214	Long Valley Dam (L. Abut)	33.4	IVA	-	.10	50.00	.071	7.9	3.06	7.9	CVLV090
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54101	Tinemaha Res. Free Field	40.5	AVA	-	.50	30.00	.023	1.7	.54	11.3	A-TIN-UP
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54101	Tinemaha Res. Free Field	40.5	AVA	-	.50	30.00	.037	3.6	1.12	6.7	A-TIN000
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54101	Tinemaha Res. Free Field	40.5	AVA	-	.50	30.00	.037	6.3	1.21	5.6	A-TIN090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90015	LA-Chalon Rd #	32.6	--B	B	1.00	25.00	.019	.7	.07	5.1	A-CHL-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90015	LA-Chalon Rd #	32.6	--B	B	.38	25.00	.036	2.3	.21	3.5	A-CHL030
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90015	LA-Chalon Rd #	32.6	--B	B	.75	25.00	.020	1.1	.12	5.6	A-CHL120
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90016	LA-N Faring Rd #	28.5	--B	C	.55	25.00	.034	1.6	.13	6.1	A-FAR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90016	LA-N Faring Rd #	28.5	--B	C	.55	25.00	.048	2.2	.26	4.4	A-FAR000
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90016	LA-N Faring Rd #	28.5	--B	C	.40	25.00	.053	3.0	.29	4.1	A-FAR090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90050	Malibu-Las Flores Canyon #	46.3	--B	B	.65	25.00	.015	1.0	.13	4.4	A-LAS-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90050	Malibu-Las Flores Canyon #	46.3	--B	B	.65	25.00	.065	2.3	.14	3.3	A-LAS160
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90050	Malibu-Las Flores Canyon #	46.3	--B	B	.65	25.00	.055	2.2	.32	3.5	A-LAS250
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24088	Pacoima Kagel Canyon	37.9	AMB	B	.50	35.00	.055	2.7	.30	7.0	A-PKC-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24088	Pacoima Kagel Canyon	37.9	AMB	B	.35	20.00	.166	6.2	.68	3.7	A-PKC000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24088	Pacoima Kagel Canyon	37.9	AMB	B	.45	20.00	.164	6.8	.87	4.3	A-PKC090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90090	Villa Park-Serrano Ave #	30.0	--B	B	.50	25.00	.033	1.3	.11	8.9	A-SER-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90090	Villa Park-Serrano Ave #	30.0	--B	B	.70	25.00	.046	1.4	.13	6.4	A-SER000
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90090	Villa Park-Serrano Ave #	30.0	--B	B	.55	25.00	.072	2.6	.27	5.5	A-SER270
0121	Spitak, Armenia	1988	1207	6.8			12	Gukasian	30.0	A-A	-	.50	25.00	.119	8.8	4.30	6.2	GUK-UP
0121	Spitak, Armenia	1988	1207	6.8			12	Gukasian	30.0	A-A	-	.50	25.00	.199	28.6	9.80	6.3	GUK000
0121	Spitak, Armenia	1988	1207	6.8			12	Gukasian	30.0	A-A	-	.50	25.00	.715	15.1	4.30	4.4	GUK090
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58262	Belmont-Envirotech	49.9	BFA	B	.20	38.00	.041	4.5	2.46	7.1	BES-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58262	Belmont-Envirotech	49.9	BFA	B	.20	22.00	.108	11.8	3.30	4.7	BES000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58262	Belmont-Envirotech	49.9	BFA	B	.20	30.00	.110	16.2	5.71	3.8	BES090

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57383	Gilroy Array #6	19.9	IKB	B	.20	32.00	.101	9.5	4.10	5.1	LPG06-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57383	Gilroy Array #6	19.9	IKB	B	.20	38.00	.126	12.8	4.74	4.5	LPG06000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57383	Gilroy Array #6	19.9	IKB	B	.20	31.00	.170	14.2	3.79	4.5	LPG06090
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	47189	SAGO South - Surface	34.7	IGB	B	.10	29.00	.060	7.8	5.86	5.9	SG3-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	47189	SAGO South - Surface	34.7	IGB	B	.10	25.00	.073	10.5	6.40	5.4	SG3261
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	47189	SAGO South - Surface	34.7	IGB	B	.10	30.00	.067	9.6	6.42	7.8	SG3351
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58127	Woodside	39.9	APB	B	.10	31.00	.050	6.2	2.80	6.5	WDS-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58127	Woodside	39.9	APB	B	.10	25.00	.080	13.7	8.47	6.2	WDS000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58127	Woodside	39.9	APB	B	.10	25.00	.082	16.7	8.89	6.3	WDS090
0131	Northridge	1994	0117	1231	6.7	USC	90059	Burbank - Howard Rd.	20.0	—B	B	.10	30.00	.085	3.6	1.48	7.0	HOW-UP
0131	Northridge	1994	0117	1231	6.7	USC	90059	Burbank - Howard Rd.	20.0	—B	B	.10	30.00	.120	9.5	2.25	5.9	HOW060
0131	Northridge	1994	0117	1231	6.7	USC	90059	Burbank-Howard Rd.	20.0	—B	B	.10	30.00	.163	8.5	1.81	5.1	HOW330
0131	Northridge	1994	0117	1231	6.7	USC	90015	LA - Chalon Rd	23.7	—B	B	.50	30.00	.174	8.0	1.09	5.8	CHL-UP
0131	Northridge	1994	0117	1231	6.7	USC	90015	LA - Chalon Rd	23.7	—B	B	.30	30.00	.225	16.6	3.39	5.7	CHL070
0131	Northridge	1994	0117	1231	6.7	USC	90015	LA - Chalon Rd	23.7	—B	B	.20	30.00	.185	27.1	5.77	5.0	CHL160
0131	Northridge	1994	0117	1231	6.7	USC	90016	LA - N Faring Rd	23.9	—B	C	.20	30.00	.191	8.9	1.65	5.9	FAR-UP
0131	Northridge	1994	0117	1231	6.7	USC	90016	LA - N Faring Rd	23.9	—B	C	.13	30.00	.273	15.8	3.29	4.8	FAR000
0131	Northridge	1994	0117	1231	6.7	USC	90016	LA - N Faring Rd	23.9	—B	C	.13	30.00	.242	29.8	4.74	5.8	FAR090
0131	Northridge	1994	0117	1231	6.7	CDMG	24605	LA-Univ Hospital #	34.6	IMA	B	.20	46.00	.119	6.4	1.37	7.6	UNI-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24605	LA-Univ Hospital #	34.6	IMA	B	.20	46.00	.493	31.1	2.39	5.6	UNI005
0131	Northridge	1994	0117	1231	6.7	CDMG	24605	LA-Univ Hospital #	34.6	IMA	B	.20	46.00	.214	10.8	2.37	6.7	UNI095

NRC TIME HISTORY LIBRARY: WUS, ROCK, M=6-7, D=50-100 km

B-11

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0025	Parkfield	1966	0628	0426	6.1	USGS	1083	San Luis Obispo	60.0	CBB	-	.20	15.00	.007	.8	.28	5.3	SLO-UP
0025	Parkfield	1966	0628	0426	6.1	USGS	1083	San Luis Obispo	60.0	CBB	-	.20	15.00	.012	1.0	.30	5.9	SLO234
0025	Parkfield	1966	0628	0426	6.1	USGS	1083	San Luis Obispo	60.0	CBB	-	.20	12.00	.014	1.0	.46	6.3	SLO324
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.009	.9	.53	6.0	CSMDWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.020	1.7	.49	5.6	CSM095
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.015	1.4	.57	5.9	CSM185
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland-San Antonio Dam	58.1	AAA	B	.50	35.00	.032	1.3	.54	7.0	SODDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland-San Antonio Dam	58.1	AAA	B	.50	35.00	.058	2.9	.55	7.1	SOD015
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland-San Antonio Dam	58.1	AAA	B	.50	35.00	.079	3.5	.50	6.3	SOD285
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas-N Las Virg#	53.3	--B	B	.40	25.00	.023	1.6	.15	12.4	A-VIR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas-N Las Virg#	53.3	--B	B	.33	25.00	.042	2.3	.35	7.2	A-VIR200
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas-N Las Virg#	53.3	--B	B	.45	25.00	.025	1.2	.13	7.4	A-VIR290
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaic-Hasley Canyon	70.9	A-B	-	.50	20.00	.021	1.5	.16	11.9	A-CSH-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaic-Hasley Canyon	70.9	A-B	-	.70	15.00	.031	1.9	.19	9.1	A-CSH000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaic-Hasley Canyon	70.9	A-B	-	.50	15.00	.035	2.6	.31	7.3	A-CSH090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic-Old Ridge Route	78.3	A-B	B	1.00	23.00	.026	1.1	.08	12.3	A-ORR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic-Old Ridge Route	78.3	A-B	B	.80	15.00	.071	4.4	.40	7.2	A-ORR000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic-Old Ridge Route	78.3	A-B	B	.80	20.00	.065	4.5	.38	6.4	A-ORR090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu-Point Dume Sch	65.3	AMB	B	.35	30.00	.029	1.9	.15	108	A-MAL-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu-Point Dume Sch	65.3	AMB	B	.35	25.00	.048	2.4	.32	5.5	A-MAL180
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu-Point Dume Sch	65.3	AMB	B	.60	20.00	.040	2.0	.18	5.6	A-MAL270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	3.00	50.00	.044	.7	.01	8.3	A-RIV-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	1.70	35.00	.050	1.4	.05	7.0	A-RIV180
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	2.00	45.00	.047	1.4	.04	4.9	A-RIV270
0124	Georgia, USSR	1991	0615	0059	6.2		18	Ambralauri	73.7	A-A	-	.10		.007	1.0	.31	13.9	AMB--Z
0124	Georgia, USSR	1991	0615	0059	6.2		18	Ambralauri	73.7	A-A	-	.10		.018	1.8	.54	9.9	AMB--X
0124	Georgia, USSR	1991	0615	0059	6.2		18	Ambralauri	73.7	A-A	-	.10		.016	1.3	.39	10.0	AMB--Y
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte-Mel Canyon Rd	51.6	--B	B	.90	30.00	.046	2.2	.17	7.8	MEL-UP
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte-Mel Canyon Rd	51.6	--B	B	.10	30.00	.079	3.4	1.84	8.3	MEL090
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte-Mel Canyon Rd	51.6	--B	B	.30	30.00	.028	2.4	.46	8.4	MEL180
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can #	80.0	IGA	A	.30	46.00	.025	2.2	.40	13.6	CUC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can #	80.0	IGA	A	.30	46.00	.071	4.2	.56	11.0	CUC090
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can #	80.0	IGA	A	.30	46.00	.051	5.9	.78	10.2	CUC180
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes-Hawth#	55.2	AMA	A	.30	23.00	.043	1.8	.39	9.0	RAN-UP

		Date & Time								Closest	Site Codes		Filter		Corners					
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename		
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes-Hawth#	55.2	AMA	A	.30	23.00	.072	5.0	.73	6.5	RAN000		
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes-Hawth#	55.2	AMA	A	.30	23.00	.054	3.5	.98	8.1	RAN090		
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B C	.30	30.00	.027	2.5	.37	14.8	SER-UP		
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B C	.10	30.00	.043	3.1	1.19	9.5	SER000		
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B C	.10	30.00	.045	3.8	2.00	8.1	SER270		
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B C	.20	30.00	.049	2.7	.95	10.6	SOR-UP		
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B C	.20	30.00	.063	5.9	1.34	10.7	SOR225		
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B C	.10	30.00	.067	5.8	2.65	10.4	SOR315		
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood-Jackson Flat #	68.4	I-	A A	.24	46.00	.034	5.8	1.32	13.9	WWJ-UP		
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood-Jackson Flat #	68.4	I-	A A	.24	46.00	.056	10.0	2.92	7.3	WWJ090		
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood-Jackson Flat #	68.4	I-	A A	.24	46.00	.037	7.0	2.84	10.0	WWJ180		

NRC TIME HISTORY LIBRARY: WUS, ROCK, M=6-7, D=100-200 km

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0028	Borrego Mtn	1968	0409	0230	6.8	SCE	280	San Onofre-So. Cal. Edison	124.7	ABB	-	.20	15.00	.062	1.9	.50	19.1	A-SON-UP
0028	Borrego Mtn	1968	0409	0230	6.8	SCE	280	San Onofre-So. Cal. Edison	124.7	ABB	-	.10	20.00	.041	3.7	1.72	20.3	A-SON033
0028	Borrego Mtn	1968	0409	0230	6.8	SCE	280	San Onofre-So. Cal. Edison	124.7	ABB	-	.20	20.00	.045	3.7	1.30	20.1	A-SON303
0030	San Fernando	1971	0209	1400	6.6	ACOE	1035	Isabella Dam (Aux Abut)	113.0	AGA	-	.10	20.00	.006	1.3	1.33	23.0	ISDDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	1035	Isabella Dam (Aux Abut)	113.0	AGA	-	.10	13.00	.006	1.4	1.94	20.0	ISD014
0030	San Fernando	1971	0209	1400	6.6	ACOE	1035	Isabella Dam (Aux Abut)	113.0	AGA	-	.10	13.00	.009	1.6	2.03	19.3	ISD284
0030	San Fernando	1971	0209	1400	6.6	CDWR	1041	Maricopa Array #1	115.0	IBB	-	.10	20.00	.005	1.1	1.40	20.2	MA1DWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	1041	Maricopa Array #1	115.0	IBB	-	.10	13.00	.007	1.7	1.53	16.5	MA1130
0030	San Fernando	1971	0209	1400	6.6	CDWR	1041	Maricopa Array #1	115.0	IBB	-	.10	20.00	.011	2.4	2.33	16.3	MA1220
0030	San Fernando	1971	0209	1400	6.6	CDWR	1042	Maricopa Array #2	113.0	IBB	-	.20	20.00	.007	.7	.22	13.0	MA2DWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	1042	Maricopa Array #2	113.0	IBB	-	.10	20.00	.009	1.3	1.03	14.7	MA2130
0030	San Fernando	1971	0209	1400	6.6	CDWR	1042	Maricopa Array #2	113.0	IBB	-	.20	15.00	.009	1.1	.41	12.3	MA2220
0030	San Fernando	1971	0209	1400	6.6	CDWR	1043	Maricopa Array #3	113.0	IBB	-	.20	15.00	.007	2.9	2.15	11.9	MA3DWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	1043	Maricopa Array #3	113.0	IBB	-	.20	20.00	.008	2.2	1.85	11.7	MA3130
0030	San Fernando	1971	0209	1400	6.6	CDWR	1043	Maricopa Array #3	113.0	IBB	-	.10	20.00	.010	2.0	2.16	14.4	MA3220
0030	San Fernando	1971	0209	1400	6.6	SCE	280	San Onofre-So Cal Edison	122.0	ABB	-	.10	23.00	.011	.8	.77	9.8	SONDWN
0030	San Fernando	1971	0209	1400	6.6	SCE	280	San Onofre-So Cal Edison	122.0	ABB	-	.10	20.00	.013	1.7	.74	12.7	SON033
0030	San Fernando	1971	0209	1400	6.6	SCE	280	San Onofre-So Cal Edison	122.0	ABB	-	.20	20.00	.016	1.8	.63	9.4	SON303
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.009	.9	.53	6.0	CSMDWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.020	1.7	.49	5.6	CSM095
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.015	1.4	.57	5.9	CSM185
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland-San Antonio Dam	58.1	AAA	B	.50	35.00	.032	1.3	.54	7.0	SODDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland-San Antonio Dam	58.1	AAA	B	.50	35.00	.058	2.9	.55	7.1	SOD015
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland-San Antonio Dam	58.1	AAA	B	.50	35.00	.079	3.5	.50	6.3	SOD285
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte-Mel Canyon Rd	51.6	--B	B	.90	30.00	.046	2.2	.17	7.8	MEL-UP
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte-Mel Canyon Rd	51.6	--B	B	.10	30.00	.079	3.4	1.84	8.3	MEL090
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte-Mel Canyon Rd	51.6	--B	B	.30	30.00	.028	2.4	.46	8.4	MEL180
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga-Deer Can#	80.0	IGA	A	.30	46.00	.025	2.2	.40	13.6	CUC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga-Deer Can#	80.0	IGA	A	.30	46.00	.071	4.2	.56	11.0	CUC090
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga-Deer Can#	80.0	IGA	A	.30	46.00	.051	5.9	.78	10.2	CUC180
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes-Hawth#	55.2	AMA	A	.30	23.00	.043	1.8	.39	9.0	RAN-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes-Hawth#	55.2	AMA	A	.30	23.00	.072	5.0	.73	6.5	RAN000
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes-Hawth#	55.2	AMA	A	.30	23.00	.054	3.5	.98	8.1	RAN090
0131	Northridge	1994	0117	1231	6.7	CDMG	13123	Riverside Airport #	101.3	AQB	B	.30	23.00	.022	2.3	.39	7.4	RIV-UP

Date & Time								Closest Dist (km)	Site Codes		Filter Corners				Dur (s)	Filename			
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.		Station	Geom	USGS	HP (hz)	LP (hz)	PGA (g)			PGV (g)	PGD (cm/s)	
0131	Northridge	1994	0117	1231	6.7	CDMG	13123	Riverside Airport #	101.3	AQB	B	.30	23.00	.059	2.7	.28	6.4	RIV180	
0131	Northridge	1994	0117	1231	6.7	CDMG	13123	Riverside Airport #	101.3	AQB	B	.30	23.00	.064	3.1	.50	6.2	RIV270	
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B	C	.30	30.00	.027	2.5	.37	14.8	SER-UP
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B	C	.30	30.00	.043	3.1	1.19	9.5	SER000
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B	C	.30	30.00	.045	3.8	2.00	8.1	SER270
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B	C	.20	30.00	.049	2.7	.95	10.6	SOR-UP
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B	C	.20	30.00	.063	5.9	1.34	10.7	SOR225
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B	C	.10	30.00	.067	5.8	2.65	10.4	SOR315
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood-Jackson Flat #	68.4	I-	A	A	.24	46.00	.034	5.8	1.32	13.9	WWJ-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood-Jackson Flat #	68.4	I-	A	A	.24	46.00	.056	10.0	2.92	7.3	WWJ090
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood-Jackson Flat #	68.4	I-	A	A	.24	46.00	.037	7.0	2.84	10.0	WWJ180

NRC TIME HISTORY LIBRARY: WUS, ROCK, M>7, D=0-10 km

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Date & Time										Closest Dist (km)	Site Codes		Filter Corners					Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Geom		USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr		AAA	-	.50	38.00	1.264	54.2	30.15	5.1	GAZ-UP	
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr		AAA	-	.50	38.00	.608	65.4	25.29	4.5	GAZ000	
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr		AAA	-	.50	38.00	.718	71.6	23.71	5.4	GAZ090	
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos		APB	B	.20	32.00	.455	17.7	7.11	3.5	CLS-UP	
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos		APB	B	.20	40.00	.644	55.2	1088	3.4	CLS000	
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos		APB	B	.20	40.00	.479	45.2	11.37	4.6	CLS090	
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC		--A	-	.10		.890	54.9	17.56	4.5	LGP-UP	
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC		--A	-	.10		.563	94.8	41.18	5.5	LGP000	
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC		--A	-	.10		.605	51.0	11.50	5.5	LGP090	
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	13	BRAN		--A	-	.10		.507	17.9	4.17	6.2	BRN-UP	
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	13	BRAN		--A	-	.10		.453	51.3	8.37	5.6	BRN000	
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	13	BRAN		--A	-	.10		.501	44.6	4.86	6.9	BRN090	
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89005	Cape Mendocino #		IFA	A	.07	23.00	.754	63.0	109.48	2.2	CPM-UP	
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89005	Cape Mendocino #		IFA	A	.07	23.00	1.497	127.4	41.01	2.5	CPM000	
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89005	Cape Mendocino #		IFA	A	.07	23.00	1.039	42.0	12.39	2.9	CPM090	
0129	Landers	1992	0628	1158	7.3	SCE	24	Lucerne		A-A	A	.08	60.00	.818	45.9	22.23	7.4	LCN-UP	
0129	Landers	1992	0628	1158	7.3	SCE	24	Lucerne		A-A	A	.08	60.00	.721	97.6	70.31	8.4	LNC260	
0129	Landers	1992	0628	1158	7.3	SCE	24	Lucerne		A-A	A	.08	60.00	.785	31.9	16.42	8.4	LCN345	
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University		--A	A	.20	30.00	.380	20.2	6.48	2.8	KBU-UP	
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University		--A	A	.20	30.00	.290	54.8	13.61	3.3	KBU000	
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University		--A	A	.20	30.00	.310	34.2	7.14	3.7	KBU090	
0133	Kobe	1995	0116	2046	6.9		99999	KJMA		--B	B	.05		.343	38.3	10.29	4.7	KJM-UP	
0133	Kobe	1995	0116	2046	6.9		99999	KJMA		--B	B	.05		.821	81.3	17.68	4.2	KJM000	
0133	Kobe	1995	0116	2046	6.9		99999	KJMA		--B	B	.05		.599	74.3	19.95	4.3	KJM090	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Izmit		--A	A	2.00	30.00	.149	11.9	4.99	8.4	IZT-UP	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Izmit		--A	A	.10	30.00	.152	22.6	9.81	8.2	IZT180	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Izmit		--A	A	.10	30.00	.220	29.8	17.12	6.3	IZT090	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY080		---	B	.03	50.00	.724	49.0	27.82	5.9	CHY080-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY080		---	B	.05	50.00	.902	102.4	33.97	5.7	CHY080-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY080		---	B	.10	50.00	.968	107.5	18.60	7.0	CHY080-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU087		--1	b	.02	30.00	.108	61.5	51.32	9.8	TCU087-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU087		--1	b	.05	30.00	.122	37.1	25.54	16.1	TCU087-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU087		--1	b	.02	30.0	.128	40.8	62.62	14.9	TCU087-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU089		--1	b	.03	50.00	.191	22.3	24.36	18.0	TCU089-V	

Date & Time							Station	Closest	Site Codes		Filter Corners			PGV	PGD	Dur	Filename	
No.	Earthquake	YR	MODY	HRMN	Mag	Own		No.	Dist (km)	Geom	USGS	HP (hz)	LP (hz)					PGA (g)
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU089	8.2	--1	b	.04	50.00	.248	31.0	32.37	21.8	TCU089-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU089	8.2	--1	b	.07	50.00	.333	30.9	18.48	19.3	TCU089-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU120	8.1	--1	B	.03	50.00	.162	32.1	22.34	19.5	TCU120-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU120	8.1	--1	B	.03	50.00	.192	36.9	33.30	21.7	TCU120-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU120	8.1	--1	B	.02	50.00	.225	63.1	54.09	19.7	TCU120-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	40.00	.097	46.0	34.77	18.1	TCU128-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.05	30.00	.170	68.8	41.87	10.6	TCU128-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	30.00	.139	73.0	90.62	13.5	TCU128-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU136	8.9	----	B	.03	40.00	.123	27.3	30.19	17.6	TCU136-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU136	8.9	----	B	.03	50.00	.171	55.8	66.48	17.4	TCU136-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU136	8.9	----	B	.03	50.00	.177	47.5	44.82	19.2	TCU136-N

NRC TIME HISTORY LIBRARY: WUS, ROCK, M>7, D=10-50 km

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0046	Tabas, Iran	1978	0916		7.4		9102	Dayhook	17.0	ABB	—	.10		.183	12.0	4.97	8.3	DAY-UP
0046	Tabas, Iran	1978	0916		7.4		9102	Dayhook	17.0	ABB	—	.10		.328	20.6	12.56	6.7	DAY-LN
0046	Tabas, Iran	1978	0916		7.4		9102	Dayhook	17.0	ABB	—	.10		.406	26.5	8.75	6.9	DAY-TR
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89530	Shelter Cove Airport #	33.8	IFB	B	.50	23.00	.054	2.0	.33	15.5	SHL-UP
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89530	Shelter Cove Airport #	33.8	IFB	B	.50	23.00	.229	7.1	.39	13.6	SHL000
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89530	Shelter Cove Airport #	33.8	IFB	B	.50	23.00	.189	6.6	.57	14.8	SHL090
0129	Landers	1992	0628	1158	7.3	CDMG	22161	Twentynine Palms #	42.2	AGA	A	.12	23.00	.040	3.3	1.93	22.7	P-UP
0129	Landers	1992	0628	1158	7.3	CDMG	22161	Twentynine Palms #	42.2	AGA	A	.12	23.00	.080	3.7	2.34	21.6	P000
0129	Landers	1992	0628	1158	7.3	CDMG	22161	Twentynine Palms #	42.2	AGA	A	.12	23.00	.060	4.9	4.30	20.4	P090
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Arcelik	17.0	--B	B	1.50	80.00	.086	2.6	.22	8.7	ARCDWN
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Arcelik	17.0	--B	B	.80	70.00	.180	10.5	.90	7.7	ARC000
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Arcelik	17.0	--B	B	.90	70.00	.108	6.2	.63	4.4	ARC090
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Gebze	17.0	--A	A	1.00	40.00	.151	6.3	.59	5.6	GBZ-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Gebze	17.0	--A	A	.06	25.00	.244	50.3	42.74	5.3	GBZ000
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Gebze	17.0	--A	A	.08	30.00	.137	29.7	27.54	5.7	GBZ270
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Goy nuk	35.5	--B	—	.10	30.00	.114	11.5	7.59	6.6	GYN-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Goy nuk	35.5	--B	—	.15	30.00	.132	8.8	3.05	5.5	GYN000
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Goy nuk	35.5	--B	—	.10	25.00	.119	10.5	3.94	4.4	GYN090
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Iznik	29.7	--D	C	.30	30.00	.083	7.7	1.70	9.9	IZN-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Iznik	29.7	--D	C	.15	25.00	.103	16.5	7.00	12.7	IZN180
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	9999	Iznik	29.7	--D	C	.07	25.00	.136	28.8	17.44	10.7	IZN090
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA056	48.7	----	A	.02	50.00	.062	7.1	10.35	10.7	HWA056-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA056	48.7	----	A	.03	50.00	.107	10.8	10.36	9.5	HWA056-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA056	48.7	----	A	.02	50.00	.107	11.7	17.64	9.2	HWA056-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU015	47.3	--1	B	.02	50.00	.068	17.2	14.85	19.1	TCU015-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU015	47.3	--1	B	.03	50.00	.114	29.5	24.14	12.7	TCU015-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU015	47.3	--1	B	.02	50.00	.119	49.8	49.79	15.7	TCU015-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU046	14.3	--1	A	.03	30.00	.104	32.3	37.74	9.5	TCU046-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU046	14.3	--1	A	.06	30.00	.116	30.9	23.18	10.8	TCU046-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU046	14.3	--1	A	.03	30.00	.133	39.8	37.37	11.5	TCU046-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU047	33.0	----	B	.02	50.00	.270	26.9	17.88	11.6	TCU047-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU047	33.0	----	B	.03	50.00	.413	40.2	22.22	9.8	TCU047-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU047	33.0	----	B	.02	50.00	.301	41.6	51.08	10.1	TCU047-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU095	43.4	--1	B	.02	50.00	.255	21.8	21.95	13.0	TCU095-V

Date & Time								Station	Closest Dist (km)	Site Codes		Filter Corners							Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.			Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)		
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU095	43.4	-- 1	B	.04	50.00	.712	49.1	24.45	8.3	TCU095-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU095	43.4	-- 1	B	.02	50.00	.378	62.0	51.75	8.3	TCU095-W	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Bolu	16.0	-- D	C	.05		.203	17.3	14.29	6.0	BOL-UP	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Bolu	16.0	-- D	C	.05		.728	56.4	23.07	2.6	BOL000	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Bolu	16.0	-- D	C	.05		.822	62.1	13.55	1.5	BOL090	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Mudumu	34.6	-- A	-	.08		.060	10.6	7.33	19.5	MDR-UP	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Mudumu	34.6	-- A	-	.08		.120	9.3	7.63	17.1	MDR000	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Mudumu	34.6	-- A	-	.08		.056	16.3	15.37	18.6	MDR090	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Sakarya	42.7	-- B	B	.05	40.00	.011	3.2	4.00	17.4	SKR-UP	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Sakarya	42.7	-- B	B	.05	40.00	.023	5.5	5.80	16.9	SKR180	
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Sakarya	42.7	-- B	B	.05	40.00	.016	5.5	7.34	17.1	SKR090	

NRC TIME HISTORY LIBRARY: WUS, ROCK, M>7, D=50-100 km

Date & Time							Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0046	Tabas, Iran	1978	0916		7.4		71	Ferdows	94.4	-- A -	.04		.053	7.6	6.78	21.9	FER-V1	
0046	Tabas, Iran	1978	0916		7.4		71	Ferdows	94.4	-- A -	.02	20.00	.087	5.7	4.61	16.6	FER-L1	
0046	Tabas, Iran	1978	0916		7.4		71	Ferdows	94.4	-- A -	.04	20.00	.108	8.6	9.69	20.5	FER-T1	
0129	Landers	1992	0628	1158	7.3	CDMG	21081	Amboy #	69.2	AAB A	.10	23.00	.090	11.0	3.25	22.1	ABY-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	21081	Amboy #	69.2	AAB A	.10	23.00	.115	18.3	11.16	17.7	ABY000	
0129	Landers	1992	0628	1158	7.3	CDMG	21081	Amboy #	69.2	AAB A	.10	23.00	.146	20.0	7.38	17.1	ABY090	
0129	Landers	1992	0628	1158	7.3	CDMG	12168	Puerta La Cruz #	95.9	AQB B	.30	23.00	.038	1.7	.48	26.3	PLC-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12168	Puerta La Cruz #	95.9	AQB B	.30	23.00	.047	2.0	.41	25.3	PLC000	
0129	Landers	1992	0628	1158	7.3	CDMG	12168	Puerta La Cruz #	95.9	AQB B	.30	23.00	.044	2.0	.63	24.3	PLC090	
0129	Landers	1992	0628	1158	7.3	CDMG	13123	Riverside Airport #	96.1	AQB B	.16	23.00	.040	1.7	1.01	21.8	RIV-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	13123	Riverside Airport #	96.1	AQB B	.16	23.00	.043	3.0	1.62	18.6	RIV180	
0129	Landers	1992	0628	1158	7.3	CDMG	13123	Riverside Airport #	96.1	AQB B	.16	23.00	.041	3.2	1.38	16.6	RIV270	
0129	Landers	1992	0628	1158	7.3	CDMG	12206	Silent Valley - Poppet Flat #	51.7	IGA A	.12	23.00	.038	3.2	2.08	19.7	SIL-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12206	Silent Valley - Poppet Flat #	51.7	IGA A	.12	23.00	.050	3.8	2.03	20.3	SIL000	
0129	Landers	1992	0628	1158	7.3	CDMG	12206	Silent Valley - Poppet Flat #	51.7	IGA A	.12	23.00	.040	5.1	3.88	21.5	SIL090	
0141	Kocaeli, Turkey	1999	0817		7.4	ITU	99999	Mecidiyekoy	62.3	-- B B	1.10	60.00	.028	1.3	.16	12.1	MCD-V	
0141	Kocaeli, Turkey	1999	0817		7.4	ITU	99999	Mecidiyekoy	62.3	-- B B	.20	50.00	.053	3.8	1.49	10.7	MCD000	
0141	Kocaeli, Turkey	1999	0817		7.4	ITU	99999	Mecidiyekoy	62.3	-- B B	.05	60.00	.068	8.8	10.11	10.0	MCD090	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	NSK	64.5	-- 1 A	.20	50.00	.034	5.1	1.12	11.5	NSK-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	NSK	64.5	-- 1 A	.02	30.00	.070	6.9	4.22	7.8	NSK-E	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	NSK	64.5	-- 1 A	.20	33.00	.065	5.1	1.20	11.7	NSK-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP035	96.8	-- 1 A	.02	24.00	.028	7.6	9.01	18.6	TAP035-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP035	96.8	-- 1 A	.02	24.00	.085	8.3	8.00	13.8	TAP035-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP035	96.8	-- 1 A	.02	24.00	.067	8.4	12.78	15.1	TAP035-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP036	95.6	-- 1 A	.02	30.00	.017	6.9	9.05	21.4	TAP036-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP036	95.6	-- 1 A	.02	30.00	.039	6.1	5.83	14.9	TAP036-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP036	95.6	-- 1 A	.02	20.00	.030	7.6	10.69	15.4	TAP036-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU025	54.3	--- A	.05	50.00	.034	13.8	18.29	13.2	TCU025-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU025	54.3	--- A	.05	50.00	.058	10.5	10.17	11.8	TCU025-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU025	54.3	--- A	.05	50.00	.075	19.0	22.00	12.7	TCU025-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA031	94.7	-- 1 A	.00	50.00	.030	7.3	9.75	17.1	ILA031-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA031	94.7	-- 1 A	.00	30.00	.076	9.1	10.68	11.4	ILA031-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA031	94.7	-- 1 A	.00	50.00	.057	10.0	9.94	11.6	ILA031-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA051	90.3	--- A	.02	24.00	.024	8.4	10.13	18.9	ILA051-V	

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA051	90.3	----	A	.02	22.00	.033	7.3	9.19	19.8	ILA051-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA051	90.3	----	A	.02	22.00	.080	12.3	9.66	11.6	ILA051-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA063	71.6	----	A	.04	50.00	.031	7.3	9.45	14.7	ILA063-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA063	71.6	----	A	.02	50.00	.091	8.1	12.98	13.7	ILA063-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA063	71.6	----	A	.02	50.00	.082	12.6	8.81	13.0	ILA063-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA023	57.0	--2	A	.03	50.00	.026	7.6	10.14	13.1	HWA023-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA023	57.0	--2	A	.04	40.00	.037	6.6	9.03	9.5	HWA023-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA023	57.0	--2	A	.04	40.00	.037	8.6	13.88	12.5	HWA023-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA026	58.8	----	A	.02	50.00	.038	6.7	9.93	15.0	HWA026-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA026	58.8	----	A	.03	50.00	.058	9.1	9.74	9.3	HWA026-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA026	58.8	----	A	.02	50.00	.071	11.2	18.17	9.9	HWA026-W

NRC TIME HISTORY LIBRARY: WUS, ROCK, M>7, D=100-200 km

Date & Time																	
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	Filter HP (hz)	LP (hz)	PGV (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0046	Tabas, Iran	1978	0916		7.4		72	Kashmar	199.1	--B -	.05	20.00	.026	7.4	6.78	17.2	KSH-V1
0046	Tabas, Iran	1978	0916		7.4		72	Kashmar	199.1	--B -	.03	20.00	.034	10.7	10.60	16.8	KSH-L1
0046	Tabas, Iran	1978	0916		7.4		72	Kashmar	199.1	--B -	.02	20.00	.037	11.4	7.10	15.9	KSH-T1
0129	Landers	1992	0628	1158	7.3	USC	90052	Calabasas-N Las Virg	194.1	--B B	.50	25.00	.013	1.4	.31	27.5	VIR-UP
0129	Landers	1992	0628	1158	7.3	USC	90052	Calabasas-N Las Virg	194.1	--B B	.28	25.00	.018	2.8	.81	20.9	VIR200
0129	Landers	1992	0628	1158	7.3	USC	90052	Calabasas-N Las Virg	194.1	--B B	.20	22.00	.012	2.5	.95	20.8	VIR290
0129	Landers	1992	0628	1158	7.3	USC	90067	Duarte-Mel Canyon Rd #	126.4	--B B	.28	25.00	.019	4.0	1.14	15.5	MEL-UP
0129	Landers	1992	0628	1158	7.3	USC	90067	Duarte-Mel Canyon Rd #	126.4	--B B	.28	25.00	.026	3.5	.86	14.7	MEL090
0129	Landers	1992	0628	1158	7.3	USC	90067	Duarte-Mel Canyon Rd #	126.4	--B B	.30	25.00	.017	2.8	1.05	15.5	MEL180
0129	Landers	1992	0628	1158	7.3	USC	90019	San Gabriel - E Grand Ave	141.6	--A A	.16	22.00	.022	6.3	2.97	25.3	GRN-UP
0129	Landers	1992	0628	1158	7.3	USC	90019	San Gabriel - E Grand Ave	141.6	--A A	.07	25.00	.041	14.1	15.03	20.9	GRN180
0129	Landers	1992	0628	1158	7.3	USC	90019	San Gabriel - E Grand Ave	141.6	--A A	.13	25.00	.036	9.6	6.03	23.0	GRN270
0129	Landers	1992	0628	1158	7.3	USC	90008	Sun Valley - Sunland #	162.6	--B B	1.00	25.00	.012	.9	.08	24.5	SUL-UP
0129	Landers	1992	0628	1158	7.3	USC	90008	Sun Valley - Sunland #	162.6	--B B	.33	25.00	.027	2.6	.71	24.5	SUL230
0129	Landers	1992	0628	1158	7.3	USC	90008	Sun Valley - Sunland #	162.6	--B B	.45	25.00	.021	2.9	.60	21.8	SUL320
0129	Landers	1992	0628	1158	7.3	USC	90090	Villa Park - Serrano Ave #	131.4	--B B	.20	25.00	.021	2.8	.93	31.3	SER-UP
0129	Landers	1992	0628	1158	7.3	USC	90090	Villa Park - Serrano Ave #	131.4	--B B	.11	25.00	.028	8.0	5.32	20.9	SER000
0129	Landers	1992	0628	1158	7.3	USC	90090	Villa Park - Serrano Ave #	131.4	--B B	.18	25.00	.035	7.0	3.51	19.5	SER270
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	PNG	114.2	--1 A	.40	30.00	.013	1.2	.21	26.8	PNG-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	PNG	114.2	--1 A	.24	40.00	.028	1.6	.52	24.0	PNG-E
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	PNG	114.2	--1 A	.22	30.00	.035	2.4	.75	22.4	PNG-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	KAU078	102.8	--1 A	.03	50.00	.015	2.6	2.44	29.0	KAU078-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	KAU078	102.8	--1 A	.02	50.00	.024	2.2	3.17	26.8	KAU078-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	KAU078	102.8	--1 A	.02	50.00	.046	2.6	3.64	20.9	KAU078-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP059	125.9	--1 A	.02	20.00	.018	5.7	6.82	24.0	TAP059-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP059	125.9	--1 A	.02	30.00	.039	6.5	4.80	21.0	TAP059-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP059	125.9	--1 A	.00	15.00	.030	7.6	8.11	19.0	TAP059-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP060	128.4	--1 A	.02	24.00	.014	5.0	7.02	25.4	TAP060-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP060	128.4	--1 A	.02	20.00	.036	7.6	6.05	17.6	TAP060-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP060	128.4	--1 A	.00	20.00	.036	11.0	8.80	10.0	TAP060-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP067	104.2	--1 A	.03	20.00	.037	8.4	10.40	20.6	TAP067-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP067	104.2	--1 A	.02	20.00	.042	9.6	8.18	15.8	TAP067-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP067	104.2	--1 A	.02	20.00	.039	11.5	12.16	12.8	TAP067-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP069	135.3	--1 A	.04	20.00	.013	5.2	6.49	26.9	TAP069-V

Date & Time							Station	Closest	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own		Dist (km)	Geom	USGS	HP (hz)	LP (hz)					
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		135.3	--1	A	.05	20.00	.033	5.8	4.58	9.4	TAP069-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		135.3	--1	A	.04	20.00	.026	5.0	8.69	16.2	TAP069-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		110.0	--1	A	.03	30.00	.018	7.5	9.54	24.6	TAP072-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		110.0	--1	A	.04	30.00	.050	11.4	6.59	10.2	TAP072-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		110.0	--1	A	.03	50.00	.029	7.5	8.67	18.4	TAP072-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		118.4	----	A	.03	30.00	.024	6.3	8.90	22.3	TAP075-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		118.4	----	A	.02	50.00	.050	9.7	6.49	15.8	TAP075-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		118.4	----	A	.01	30.00	.083	10.3	11.98	12.3	TAP075-W
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		131.0	----	A	.03	33.00	.018	5.4	8.02	24.3	TAP078-V
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		131.0	----	A	.04	40.00	.042	8.6	5.60	13.3	TAP078-N
0142	Chi Chi, Taiwan	1999	0920		7.6	CWB		131.0	----	A	.02	40.00	.043	6.9	8.98	19.8	TAP078-W

TABLE B-2: WUS, SOIL
NRC TIME HISTORY LIBRARY: WUS, SOIL, M=5-6, D=0-50 km

Date & Time																	
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	Filter Corners HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0026	Northern Calif	1967	1210	1206	5.6	USGS	1023	Ferndale City Hall	30.8	BQD C	.40	12.00	.032	3.3	.46	8.7	C-FRN-UP
0026	Northern Calif	1967	1210	1206	5.6	USGS	1023	Ferndale City Hall	30.8	BQD C	.30	20.00	.283	9.2	1.23	1.3	C-FRN224
0026	Northern Calif	1967	1210	1206	5.6	USGS	1023	Ferndale City Hall	30.8	BQD C	.20	13.00	.113	11.1	1.58	6.0	C-FRN314
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54099	Convict Creek	17.4	AQD -	.20	40.00	.195	8.5	1.58	3.3	A-CVK-UP
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54099	Convict Creek	17.4	AQD -	.08	30.00	.219	18.5	4.87	2.8	A-CVK090
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54099	Convict Creek	17.4	AQD -	.08	35.00	.208	16.1	2.29	2.1	A-CVK180
0074	Mammoth Lakes	1983	0107	0138	5.2	CDMG	54099	Convict Creek	9.5	AQD -	.20	40.00	.097	7.9	1.65	3.9	F-CVK-UP
0074	Mammoth Lakes	1983	0107	0138	5.2	CDMG	54099	Convict Creek	9.5	AQD -	.15	30.00	.165	14.4	2.05	2.8	F-CVK090
0074	Mammoth Lakes	1983	0107	0138	5.2	CDMG	54099	Convict Creek	9.5	AQD -	.15	30.00	.153	18.7	2.88	1.9	F-CVK180
0077	Coalinga	1983	0509	0249	5.0	USGS	1606	Burnett Construction	17.7	AHD -	.40	30.00	.077	2.0	.15	2.6	A-BNT-UP
0077	Coalinga	1983	0509	0249	5.0	USGS	1606	Burnett Construction	17.7	AHD -	.50	30.00	.095	3.5	.37	3.6	A-BNT270
0077	Coalinga	1983	0509	0249	5.0	USGS	1606	Burnett Construction	17.7	AHD -	.40	25.00	.095	4.5	.35	2.2	A-BNT360
0079	Coalinga	1983	0709	0740	5.2	CDMG	46T04	CHP (temp)	14.9	AHD -	.45	30.00	.079	2.4	.22	3.7	C-CHP-UP
0079	Coalinga	1983	0709	0740	5.2	CDMG	46T04	CHP (temp)	14.9	AHD -	.30	25.00	.204	8.0	.62	2.0	C-CHP000
0079	Coalinga	1983	0709	0740	5.2	CDMG	46T04	CHP (temp)	14.9	AHD -	.30	25.00	.171	5.4	.38	2.2	C-CHP090
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5073	Cabazon	16.3	AHD -	.20	45.00	.363	7.4	.84	2.0	CAB-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5073	Cabazon	16.3	AHD -	.15	40.00	.217	7.6	1.96	2.6	CAB180
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5073	Cabazon	16.3	AHD -	.15	40.00	.212	16.3	2.24	1.5	CAB270
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5072	Whitewater Trout Farm	7.3	AHC A	.50	40.00	.471	13.4	1.02	2.3	WWT-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5072	Whitewater Trout Farm	7.3	AHC A	.10	40.00	.492	34.7	6.38	1.7	WWT180
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5072	Whitewater Trout Farm	7.3	AHC A	.15	45.00	.612	31.5	4.58	1.8	WWT270
0106	Chalfant Valley	1986	0721	1451	5.6	CDMG	54428	Zack Brothers Ranch	20.0	AAD -	.20	40.00	.079	2.1	.15	3.9	C-ZAK-UP
0106	Chalfant Valley	1986	0721	1451	5.6	CDMG	54428	Zack Brothers Ranch	20.0	AAD -	.13	35.00	.143	7.4	.67	1.5	C-ZAK270
0106	Chalfant Valley	1986	0721	1451	5.6	CDMG	54428	Zack Brothers Ranch	20.0	AAD -	.30	30.00	.108	5.1	.58	3.6	C-ZAK360
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	951	Brea Dam (Downstream)	23.3	IPD -	.50	40.00	.094	3.1	.22	5.3	A-BRD-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	951	Brea Dam (Downstream)	23.3	IPD -	.60	35.00	.163	6.2	.36	1.9	A-BRD040
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	951	Brea Dam (Downstream)	23.3	IPD -	.60	40.00	.313	14.5	.77	1.4	A-BRD130
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90078	Compton - Castlegate St #	16.9	--D C	.50	25.00	.167	3.3	.19	3.0	A-CAS-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90078	Compton - Castlegate St #	16.9	--D C	.09	25.00	.332	27.1	5.04	1.8	A-CAS000
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90078	Compton - Castlegate St #	16.9	--D C	.28	25.00	.333	14.1	1.48	2.1	A-CAS270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	14196	Inglewood-Union Oil	25.2	IQD B	.50	30.00	.069	2.4	.24	5.9	A-ING-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	14196	Inglewood-Union Oil	25.2	IQD B	.60	40.00	.299	8.9	.78	1.6	A-ING000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	14196	Inglewood-Union Oil	25.2	IQD B	.25	40.00	.247	18.1	1.92	1.9	A-ING090

Date & Time									Closest Dist (km)	Site Codes		Filter Corners					Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station		Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90072	La Puente - Ringrove Av #	11.9	--D	C	.45	25.00	.076	2.5	.19	4.0	A-RIM-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90072	La Puente - Ringrove Av #	11.9	--D	C	.18	25.00	.143	6.2	1.04	3.8	A-RIM015
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90072	La Puente - Ringrove Av #	11.9	--D	C	.50	21.00	.118	5.9	.42	3.4	A-RIM105
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80047	Pasadena-CIT Calif Blvd	15.5	AQD	-	.30	40.00	.171	7.0	.58	2.8	A-CCB-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80047	Pasadena-CIT Calif Blvd	15.5	AQD	-	.30	40.00	.177	8.1	.96	2.6	A-CCB270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80047	Pasadena-CIT Calif Blvd	15.5	AQD	-	.30	35.00	.271	15.4	2.33	2.1	A-CCB360
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80049	Pasadena-CIT Keck Lab	15.5	-QD	-	.60	60.00	.096	4.0	.41	4.6	A-KEC-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80049	Pasadena-CIT Keck Lab	15.5	-QD	-	.40	35.00	.152	5.1	.60	3.7	A-KEC270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80049	Pasadena-CIT Keck Lab	15.5	-QD	-	.25	35.00	.188	14.1	2.63	2.6	A-KEC360
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	289	Whittier N. Dam upstream	12.3	IHD	-	.55	50.00	.505	7.1	.31	2.3	A-WHD-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	289	Whittier N. Dam upstream	12.3	IHD	-	.20	50.00	.229	17.8	2.62	2.7	A-WHD062
0117	Whittier Narrows	1987	1001	1442	6.0	USGS	289	Whittier N. Dam upstream	12.3	IHD	-	.40	40.00	.316	12.0	1.36	2.4	A-WHD152

NRC TIME HISTORY LIBRARY: WUS, SOIL, M=5-6, D=50-100 km

B-25

Date & Time							Closest		Site Codes		Filter		PGV		PGD		Filename	
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	(g)	(cm/s)		
0005	Northwest Calif	1938	0912	0610	5.5	USGS	1023	Ferndale City Hall	55.0	BQD	C	.30	15.00	.030	1.4	.14	7.3	A-FRNDWN
0005	Northwest Calif	1938	0912	0610	5.5	USGS	1023	Ferndale City Hall	55.0	BQD	C	.50	11.00	.134	7.2	.58	3.9	A-FRN045
0005	Northwest Calif	1938	0912	0610	5.5	USGS	1023	Ferndale City Hall	55.0	BQD	C	.20	11.00	.097	5.4	.78	4.2	A-FRN135
0011	Northwest Calif	1951	1008	0411	5.8	USGS	1023	Ferndale City Hall	56.0	BQD	C	.40	20.00	.031	2.1	.22	6.9	B-FRN-UP
0011	Northwest Calif	1951	1008	0411	5.8	USGS	1023	Ferndale City Hall	56.0	BQD	C	.50	12.00	.105	4.6	.47	5.8	B-FRN224
0011	Northwest Calif	1951	1008	0411	5.8	USGS	1023	Ferndale City Hall	56.0	BQD	C	.50	12.00	.110	6.1	.82	5.1	B-FRN314
0029	Lytle Creek	1970	0912	1430	5.4	CDMG	125	Lake Hughes #1	93.5	APC	B	1.10	15.00	.006	.3	.02	3.2	L01DWN
0029	Lytle Creek	1970	0912	1430	5.4	CDMG	125	Lake Hughes #1	93.5	APC	B	.80	10.00	.009	.7	.08	3.2	L01021
0029	Lytle Creek	1970	0912	1430	5.4	CDMG	125	Lake Hughes #1	93.5	APC	B	.35	20.00	.008	.6	.10	4.0	L01291
0029	Lytle Creek	1970	0912	1430	5.4	USGS	135	LA - Hollywood Stor FF	76.0	IPD	C	.90	20.00	.007	.3	.02	5.7	HOL-UP
0029	Lytle Creek	1970	0912	1430	5.4	USGS	135	LA - Hollywood Stor FF	76.0	IPD	C	.30	20.00	.017	1.0	.14	5.6	HOL090
0029	Lytle Creek	1970	0912	1430	5.4	USGS	135	LA - Hollywood Stor FF	76.0	IPD	C	.40	20.00	.018	.7	.06	4.4	HOL180
0051	Imperial Valley	1979	1015	2319	5.2	UNAMUCSD	6605	Delta	52.1	IQD	C	1.00	25.00	.023	.7	.04	5.8	DLTDWN
0051	Imperial Valley	1979	1015	2319	5.2	UNAMUCSD	6605	Delta	52.1	IQD	C	.80	25.00	.059	2.6	.21	4.0	A-DLT262
0051	Imperial Valley	1979	1015	2319	5.2	UNAMUCSD	6605	Delta	52.1	IQD	C	.40	30.00	.112	5.5	.84	2.6	A-DLT352
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, E Ground	67.6	APC	B	.30	30.00	.030	1.6	.43	9.5	RDE-UP
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, E Ground	67.6	APC	B	.15	30.00	.194	8.5	.82	3.1	RDE000
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, E Ground	67.6	APC	B	.30	30.00	.145	6.4	4.93	3.7	RDE270
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, W Ground	67.6	APC	B	.50	40.00	.033	1.8	1.62	9.2	RDW-UP
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, W Ground	67.6	APC	B	.40	40.00	.166	6.5	.56	3.3	RDW000
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, W Ground	67.6	APC	B	.20	35.00	.128	4.6	.84	3.3	RDW270
0103	N. Palm Springs	1986	0708	0920	6.0	CDOT	754	Colton Interchange-Vault	57.4	BHD	-	.40	30.00	.017	1.6	.40	10.8	CLI-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDOT	754	Colton Interchange-Vault	57.4	BHD	-	.40	30.00	.042	3.5	.59	5.1	CLI082
0103	N. Palm Springs	1986	0708	0920	6.0	CDOT	754	Colton Interchange-Vault	57.4	BHD	-	.40	30.00	.065	4.1	.43	3.8	CLI352
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	40.00	.055	2.4	.42	5.8	LDR-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.081	4.3	.42	3.9	LDR000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.098	4.6	.53	4.6	LDR090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90065	Glendora-N Oakbank #	69.7	--D	B	.38	25.00	.071	3.3	.48	5.2	A-OAK-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90065	Glendora-N Oakbank #	69.7	--D	B	.35	25.00	.092	3.4	.50	4.1	A-OAK080
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90065	Glendora-N Oakbank #	69.7	--D	B	.23	25.00	.110	5.0	.81	4.1	A-OAK170
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24526	Lancaster - Med Off FF	69.5	IQC	-	1.30	35.00	.027	.8	.03	9.2	A-LMD-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24526	Lancaster - Med Off FF	69.5	IQC	-	.80	25.00	.067	2.5	.16	5.5	A-LMD010
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24526	Lancaster - Med Off FF	69.5	IQC	-	.60	25.00	.071	2.8	.17	5.1	A-LMD100

Date & Time									Closest	Site Codes		Filter Corners						
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24309	Leona Valley #6	64.8	IHD	C	1.00	25.00	.036	1.6	.10	6.6	A-LV6000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24309	Leona Valley #6	64.8	IHD	C	.80	25.00	.053	1.9	.11	6.4	A-LV6090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24279	Newhall - Fire Sta	55.2	AQD	C	1.00	25.00	.038	1.0	.09	9.4	A-NWH-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24279	Newhall - Fire Sta	55.2	AQD	C	.50	15.00	.044	2.9	.31	9.2	A-NWH180
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24279	Newhall - Fire Sta	55.2	AQD	C	.60	15.00	.060	2.9	.41	5.6	A-NWH270
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90056	Newhall - W Pico Canyon Rd. #	57.1	--	C B	.30	25.00	.035	1.7	.17	6.7	A-WPI-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90056	Newhall - W Pico Canyon Rd. #	57.1	--	C B	.28	25.00	.088	5.6	.47	5.6	A-WPI046
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90056	Newhall - W Pico Canyon Rd. #	57.1	--	C B	.38	25.00	.055	3.9	.32	6.9	A-WPI316
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24274	Rosamond-Goode Ranch	86.0	IQC	-	.40	30.00	.021	1.2	.11	11.4	A-ROS-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24274	Rosamond-Goode Ranch	86.0	IQC	-	.40	20.00	.070	3.8	.39	3.6	A-ROS000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24274	Rosamond-Goode Ranch	86.0	IQC	-	.50	20.00	.065	3.2	.31	4.0	A-ROS090

NRC TIME HISTORY LIBRARY: WUS, SOIL, M=6-7, D=0-10 km

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename	
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5054	Bonds Corner	2.5	AQD	C	.10	40.00	.425	12.2	4.02	4.5	H-BCR-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5054	Bonds Corner	2.5	AQD	C	.10	40.00	.588	45.2	16.78	6.1	H-BCR-140	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5054	Bonds Corner	2.5	AQD	C	.10	40.00	.775	45.9	14.89	4.7	H-BCR230	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5060	Brawley Airport	8.5	AQD	C	.10	40.00	.146	8.4	3.49	4.8	H-BRA-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5060	Brawley Airport	8.5	AQD	C	.10	40.00	.160	35.9	22.44	5.2	H-BRA225	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5060	Brawley Airport	8.5	AQD	C	.10	40.00	.220	38.9	13.46	2.9	H-BRA315	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	5154	EC County Center FF	7.6	IDD	C	.10	50.00	.246	18.1	9.70	3.5	H-ECC-UP	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	5154	EC County Center FF	7.6	IDD	C	.10	40.00	.213	37.5	15.98	3.7	H-ECC002	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	5154	EC County Center FF	7.6	IDD	C	.10	35.00	.235	68.8	39.35	4.7	H-ECC092	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5057	El Centro Array #3	9.9	AQD	D	.10	40.00	.127	8.7	4.70	6.2	H-E03-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5057	El Centro Array #3	9.9	AQD	D	.10	40.00	.266	46.8	18.92	4.3	H-E03140	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5057	El Centro Array #3	9.9	AQD	D	.10	40.00	.221	39.9	23.31	5.1	H-E03230	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	952	El Centro Array #5	1.0	IQD	C	.10	40.00	.537	38.5	19.69	2.3	H-E05-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	952	El Centro Array #5	1.0	IQD	C	.10	40.00	.519	46.9	35.35	3.5	H-E05140	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	952	El Centro Array #5	1.0	IQD	C	.10	40.00	.379	90.5	63.03	3.7	H-E05230	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	942	El Centro Array #6	1.0	IQD	C	.20	40.00	1.655	57.5	26.41	1.0	H-E06-UP	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	942	El Centro Array #6	1.0	IQD	C	.10	40.00	.410	64.9	27.69	5.3	H-E06140	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	942	El Centro Array #6	1.0	IQD	C	.10	40.00	.439	109.8	65.89	4.1	H-E06230	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5165	El Centro Differential Array	5.3	IQD	C	.10	40.00	.707	20.7	11.55	2.8	H-EDA-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5165	El Centro Differential Array	5.3	IQD	C	.10	40.00	.352	71.2	45.80	3.7	H-EDA270	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5165	El Centro Differential Array	5.3	IQD	C	.10	40.00	.480	40.8	14.04	3.0	H-EDA360	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5055	Holtville Post Office	7.5	AQD	C	.10	40.00	.230	9.9	5.69	5.1	H-HVP-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5055	Holtville Post Office	7.5	AQD	C	.10	40.00	.253	48.8	31.54	4.7	H-HVP225	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5055	Holtville Post Office	7.5	AQD	C	.10	40.00	.221	49.8	31.96	4.7	H-HVP315	
0056	Mammoth Lakes	1980	0525	1634	6.3	CDMG	54099	Convict Creek	9.0	AQD	-	.20	41.00	.388	20.5	5.93	6.0	I-CVK-UP	
0056	Mammoth Lakes	1980	0525	1634	6.3	CDMG	54099	Convict Creek	9.0	AQD	-	.10	60.00	.416	23.3	4.66	6.6	I-CVK090	
0056	Mammoth Lakes	1980	0525	1634	6.3	CDMG	54099	Convict Creek	9.0	AQD	-	.10	50.00	.442	23.1	5.42	7.1	I-CVK180	
0076	Coalinga	1983	0502	2342	6.4	USBR	1162	Pleasant Valley P.P. - yard	8.5	AHD	-	.20	31.00	.353	16.1	2.35	5.1	H-PVY-UP	
0076	Coalinga	1983	0502	2342	6.4	USBR	1162	Pleasant Valley P.P. - yard	8.5	AHD	-	.20	40.00	.592	60.2	8.77	4.1	H-PVY045	
0076	Coalinga	1983	0502	2342	6.4	USBR	1162	Pleasant Valley P.P. - yard	8.5	AHD	-	.20	31.00	.551	36.4	3.96	4.4	H-PVY135	
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54171	Bisho-LADWP South St	9.2	AQD	-	.10	40.00	.140	6.7	2.25	5.1	A-LAD-UP	
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54171	Bisho-LADWP South St	9.2	AQD	-	.10	40.00	.248	19.2	7.04	3.6	A-LAD180	
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54171	Bisho-LADWP South St	9.2	AQD	-	.10	30.00	.175	19.4	6.72	3.1	A-LAD270	
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--	D	C	.20		.248	18.3	7.86	5.4	ERZ-UP

Date & Time																			
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest	Site Codes		Filter Corners			PGA	PGV	PGD	Dur	Filename
									Dist	Geom	USGS	HP	LP	(g)					
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--	D	C	.10		.515	83.9	27.35	1.5	ERZ-NS
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--	D	C	.10		.496	64.3	22.78	2.0	ERZ-EW
0131	Northridge	1994	0117	1231	6.7	CDMG	24087	Arieta-Nordhoff Fire Sta #	9.2	AQD	C		.12	23.00	.552	18.4	8.83	6.5	ARL-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24087	Arieta-Nordhoff Fire Sta #	9.2	AQD	C		.12	23.00	.344	40.6	15.04	6.4	ARL090
0131	Northridge	1994	0117	1231	6.7	CDMG	24087	Arieta-Nordhoff Fire Sta #	9.2	AQD	C		.12	23.00	.308	23.2	10.75	5.7	ARL360
0131	Northridge	1994	0117	1231	6.7	USGS	0655	Jensen Filter Plant #	6.2	--	D	B	.30		.400	34.1	8.89	5.2	JEN-UP
0131	Northridge	1994	0117	1231	6.7	USGS	0655	Jensen Filter Plant #	6.2	--	D	B	.08		.424	106.2	43.06	4.0	JEN022
0131	Northridge	1994	0117	1231	6.7	USGS	0655	Jensen Filter Plant #	6.2	--	D	B	.20		.593	99.3	24.00	3.1	JEN292
0131	Northridge	1994	0117	1231	6.7	USGS	0637	Sepulveda V A #	8.9	--	D	B	.10		.467	33.2	9.58	5.6	SPV-UP
0131	Northridge	1994	0117	1231	6.7	USGS	0637	Sepulveda V A #	8.9	--	D	B	.10		.753	84.8	18.68	4.5	SPV270
0131	Northridge	1994	0117	1231	6.7	USGS	0637	Sepulveda V A #	8.9	--	D	B			.939	76.6	14.95	4.3	SPV360
0131	Northridge	1994	0117	1231	6.7	DWP	75	Sylmar-Converter Sta East #	6.1	--	D	B			.377	24.3	7.30	3.6	SCE-UP
0131	Northridge	1994	0117	1231	6.7	DWP	75	Sylmar-Converter Sta East #	6.1	--	D	B			.828	117.5	34.22	3.8	SCE018
0131	Northridge	1994	0117	1231	6.7	DWP	75	Sylmar-Converter Sta East #	6.1	--	D	B			.493	74.6	28.69	3.4	SCE288
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--	D	D		40.00	.433	34.8	12.38	1.5	TAZ-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--	D	D		40.00	.693	68.3	26.65	2.2	TAZ000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--	D	D	.13	33.00	.694	85.3	16.75	2.1	TAZ090
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--	E	D	.20		.272	16.0	4.47	7.5	TAK-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--	E	D			.611	127.1	35.77	6.0	TAK000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--	E	D			.616	120.7	32.72	4.8	TAK090

NRC TIME HISTORY LIBRARY: WUS, SOIL, M=6-7, D=10-50 km

No.	Earthquake	Date & Time					No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)					
0030	San Fernando	1971	0209	1400	6.6	ACOE	289	Whittier Narrows Dam	45.1	IHD	-	.10	30.00	.032	3.7	2.61	9.8	WNDDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	289	Whittier Narrows Dam	45.1	IHD	-	.10	20.00	.100	9.3	5.79	6.8	WND143
0030	San Fernando	1971	0209	1400	6.6	ACOE	289	Whittier Narrows Dam	45.1	IHD	-	.10		.107	9.7	5.04	7.1	WND233
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5053	Calexico Fire Station	10.6	AQD	C	.10	40.00	.187	6.7	2.49	6.5	H-CXO-UP
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5053	Calexico Fire Station	10.6	AQD	C	.10	40.00	.275	21.2	9.02	5.8	H-CXO225
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5053	Calexico Fire Station	10.6	AQD	C	.20	40.00	.202	16.0	9.20	7.2	H-CXO315
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5056	El Centro Array #1	15.5	AQD	C	.10	40.00	.056	3.8	2.14	7.5	H-E01-UP
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5056	El Centro Array #1	15.5	AQD	C	.10	40.00	.139	16.0	9.96	5.4	H-E01140
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5056	El Centro Array #1	15.5	AQD	C	.10	40.00	.134	10.7	6.97	7.2	H-E01230
0071	Taiwan SMART1 (5)	1981	0129		6.3		29	SMART1 M07	21.0	IZD	-	.20	25.00	.050	1.5	.34	5.5	05M07DN
0071	Taiwan SMART1 (5)	1981	0129		6.3		29	SMART1 M07	21.0	IZD	-	.10	25.00	.111	5.6	.86	4.2	05M07EW
0071	Taiwan SMART1 (5)	1981	0129		6.3		29	SMART1 M07	21.0	IZD	-	.10	25.00	.109	10.9	1.74	4.3	05M07NS
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	40.00	.055	2.4	.42	5.8	LDR-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.081	4.3	.42	3.9	LDR000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.098	4.6	.53	4.6	LDR090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90069	Baldwin Park - N Holly #	11.9	--D	C	.30	25.00	.080	2.2	.75	3.1	A-NHO-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90069	Baldwin Park - N Holly #	11.9	--D	C	.13	25.00	.127	8.6	2.50	2.8	A-NHO180
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90069	Baldwin Park - N Holly #	11.9	--D	C	.50	25.00	.061	4.3	.54	6.9	A-NHO270
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90013	Beverly Hills-14145 Mulhol #	30.3	--C	C	.38	25.00	.043	2.0	.25	7.3	A-MUL-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90013	Beverly Hills-14145 Mulhol #	30.3	--C	C	.33	25.00	.104	6.5	.58	5.7	A-MUL009
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90013	Beverly Hills-14145 Mulhol #	30.3	--C	C	.35	25.00	.126	10.3	1.05	3.4	A-MUL279
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90003	Northridge-17645 Saticoy St #	39.8	--D	C	.25	25.00	.084	2.4	.41	6.6	A-STC-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90003	Northridge-17645 Saticoy St #	39.8	--D	C	.23	25.00	.161	8.5	.72	4.9	A-STC090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90003	Northridge-17645 Saticoy St #	39.8	--D	C	.20	25.00	.118	5.1	.83	9.7	A-STC180
0119	Superstition Hills (A)	1987	1124	0514	6.3	USGS	5210	Wildlife Liquef. Array	24.7	IQD	-	.20	50.00	.186	4.6	2.20	3.6	A-IVW-UP
0119	Superstition Hills (A)	1987	1124	0514	6.3	USGS	5210	Wildlife Liquef. Array	24.7	IQD	-	.20	50.00	.132	12.7	7.30	7.1	A-IVW090
0119	Superstition Hills (A)	1987	1124	0514	6.3	USGS	5210	Wildlife Liquef. Array	24.7	IQD	-	.20	50.00	.134	13.4	5.20	7.3	A-IVW360
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58065	Saratoga - Aloha Ave	13.0	AQD	B	.10	58.00	.389	26.9	15.15	4.7	STG-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58065	Saratoga - Aloha Ave	13.0	AQD	B	.10	38.00	.512	41.2	16.21	3.7	STG000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58065	Saratoga - Aloha Ave	13.0	AQD	B	.10	50.00	.324	42.6	27.53	4.2	STG090
0124	Georgia, USSR	1991	0615	0059	6.2		21	Baz	49.0	A-D	-	.10		.016	1.4	.39	11.6	BAZ-Z
0124	Georgia, USSR	1991	0615	0059	6.2		21	Baz	49.0	A-D	-	.10		.033	2.2	.40	7.2	BAZ-X
0124	Georgia, USSR	1991	0615	0059	6.2		21	Baz	49.0	A-D	-	.10		.038	2.0	.35	8.1	BAZ-Y
0131	Northridge	1994	0117	1231	6.7	USC	90063	Glendale - Las Palmas	25.4	--C	C	.30	30.00	.127	4.3	.44	7.2	GLP-UP

No.	Earthquake	Date & Time					No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)					
0131	Northridge	1994	0117	1231	6.7	USC	90063	Glendale - Las Palmas	25.4	--	C	C	.13 30.00	.357	12.3	1.94	6.2	GLP177
0131	Northridge	1994	0117	1231	6.7	USC	90063	Glendale - Las Palmas	25.4	--	C	C	.10 30.00	.206	7.4	1.75	6.2	GLP267
0131	Northridge	1994	0117	1231	6.7	CDMG	24389	LA - Century City CC North #	25.7	IQD	C	C	.14 23.00	.116	8.7	3.47	8.1	CCN-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24389	LA - Century City CC North #	25.7	IQD	C	C	.14 23.00	.256	21.1	6.68	7.0	CCN090
0131	Northridge	1994	0117	1231	6.7	CDMG	24389	LA - Century City CC North #	25.7	IQD	C	C	.14 23.00	.222	25.2	5.70	7.2	CCN360
0131	Northridge	1994	0117	1231	6.7	USC	90021	LA - N Westmoreland	29.0	--	D	B	.20 30.00	.093	6.3	1.08	8.1	WST-UP
0131	Northridge	1994	0117	1231	6.7	USC	90021	LA - N Westmoreland	29.0	--	D	B	.20 30.00	.401	20.9	2.29	5.3	WST000
0131	Northridge	1994	0117	1231	6.7	USC	90021	LA - N Westmoreland	29.0	--	D	B	.20 30.00	.361	20.9	4.27	5.7	WST270
0131	Northridge	1994	0117	1231	6.7	CDMG	24055	Leona Valley #5 - Ritter #	38.3	IQC	C	C	.20 23.00	.097	11.6	2.53	8.5	LV5-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24055	Leona Valley #5 - Ritter #	38.3	IQC	C	C	.20 23.00	.146	14.9	2.35	6.3	LV5000
0131	Northridge	1994	0117	1231	6.7	CDMG	24055	Leona Valley #5 - Ritter #	38.3	IQC	C	C	.20 23.00	.092	10.5	2.70	7.2	LV5090

NRC TIME HISTORY LIBRARY: WUS, SOIL, M=6-7, D=50-100 km

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0030	San Fernando	1971	0209	1400	6.6	CDWR	1102	Wheeler Ridge - Ground	81.6	IBD	C	.10	30.00	.014	1.4	1.46	12.8	WRP-UP
0030	San Fernando	1971	0209	1400	6.6	CDWR	1102	Wheeler Ridge - Ground	81.6	IBD	C	.10	23.00	.027	2.0	1.47	7.2	WRP090
0030	San Fernando	1971	0209	1400	6.6	CDWR	1102	Wheeler Ridge - Ground	81.6	IBD	C	.10	23.00	.031	1.7	1.23	6.2	WRP180
0086	TaiwanSMART1(25)	1983	0921		6.5		32	SMART1 E01	83.0	IZD	-	.50	25.00	.013	1.8	.31	9.4	25E01DN
0086	TaiwanSMART1(25)	1983	0921		6.5		32	SMART1 E01	83.0	IZD	-	.20	25.00	.028	.0	.96	8.3	25E01EW
0086	TaiwanSMART1(25)	1983	0921		6.5		32	SMART1 E01	83.0	IZD	-	.20	25.00	.028	4.1	.71	6.1	25E01NS
0086	TaiwanSMART1(25)	1983	0921		6.5		61	SMART1 I07	83.0	IZD	-	.10	25.00	.009	1.4	.43	11.4	25I07DN
0086	TaiwanSMART1(25)	1983	0921		6.5		61	SMART1 I07	83.0	IZD	-	.10	25.00	.035	3.8	.79	5.6	25I07EW
0086	TaiwanSMART1(25)	1983	0921		6.5		61	SMART1 I07	83.0	IZD	-	.10	25.00	.032	4.0	.97	8.6	25I07NS
0086	TaiwanSMART1(25)	1983	0921		6.5		60	SMART1 M06	83.0	IZD	-	.10	25.00	.010	1.7	.40	7.7	25M06DN
0086	TaiwanSMART1(25)	1983	0921		6.5		60	SMART1 M06	83.0	IZD	-	.10	25.00	.021	2.8	.00	6.9	25M06EW
0086	TaiwanSMART1(25)	1983	0921		6.5		60	SMART1 M06	83.0	IZD	-	.10	25.00	.031	4.3	1.10	7.7	25M06NS
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	56012	Los Banos	64.4	AHD	C	.50	20.00	.011	1.0	.50	11.3	LBN-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	56012	Los Banos	64.4	AHD	C	.50	18.00	.051	5.8	1.75	8.4	LBN090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	56012	Los Banos	64.4	AHD	C	.50	18.00	.057	8.3	1.89	12.0	LBN180
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	58223	SF Intern. Airport	71.2	AHD	C	.50	32.00	.018	.8	.28	13.6	SFO-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	58223	SF Intern. Airport	71.2	AHD	C	.50	26.00	.048	3.2	.40	11.0	SFO050
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	58223	SF Intern. Airport	71.2	AHD	C	.50	24.00	.048	2.7	.47	10.4	SFO320
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58498	Hayward - BART Sta	58.9	I-D	B	.20	40.00	.082	4.7	2.76	10.5	HWB-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58498	Hayward - BART Sta	58.9	I-D	B	.20	31.00	.159	15.1	3.72	6.3	HWB220
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58498	Hayward - BART Sta	58.9	I-D	B	.20	36.00	.156	10.6	3.33	6.6	HWB310
0124	Georgia, USSR	1991	0615	0059	6.2		20	Oni	52.0	A-D	-	.20		.018	1.2	.32	11.7	ONI-Z
0124	Georgia, USSR	1991	0615	0059	6.2		20	Oni	52.0	A-D	-	.20		.075	3.1	.40	6.6	ONI-X
0124	Georgia, USSR	1991	0615	0059	6.2		20	Oni	52.0	A-D	-	.20		.046	2.6	.44	10.1	ONI-Y
0131	Northridge	1994	0117	1231	6.7	USC	90070	Covina-W Badillo	56.1	--D	C	.30	30.00	.043	2.9	.70	11.7	BAD-UP
0131	Northridge	1994	0117	1231	6.7	USC	90070	Covina-W Badillo	56.1	--D	C	.20	30.00	.100	5.8	1.21	8.6	BAD000
0131	Northridge	1994	0117	1231	6.7	USC	90070	Covina-W Badillo	56.1	--D	C	.20	30.00	.079	7.0	1.62	7.8	BAD270
0131	Northridge	1994	0117	1231	6.7	CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	C	.20	23.00	.018	4.0	.89	18.2	HNT-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	C	.20	23.00	.091	10.1	1.13	11.3	HNT000
0131	Northridge	1994	0117	1231	6.7	CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	C	.20	23.00	.070	13.9	1.49	10.8	HNT090
0131	Northridge	1994	0117	1231	6.7	USC	90083	Huntington Beach - Waikiki	57.4	--D	C	.30	30.00	.022	1.2	.28	15.2	WAI-UP
0131	Northridge	1994	0117	1231	6.7	USC	90083	Huntington Beach - Waikiki	57.4	--D	C	.20	30.00	.086	5.0	1.63	12.1	WAI200
0131	Northridge	1994	0117	1231	6.7	USC	90083	Huntington Beach - Waikiki	57.4	--D	C	.20	30.00	.068	7.4	1.87	10.6	WAI290
0131	Northridge	1994	0117	1231	6.7	USC	90072	La Fuente - Rimgrove Av	58.9	--D	C	1.00	30.00	.048	2.6	.16	7.2	RIM-UP

No.	Earthquake	Date & Time					Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag						Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0131	Northridge	1994	0117	1231	6.7	USC		90072	La Puente - Ringrove Av	58.9	--D	C	.80	30.00	.109	7.9	.70	7.0	RIM015
0131	Northridge	1994	0117	1231	6.7	USC		90072	La Puente - Ringrove Av	58.9	--D	C	.80	30.00	.129	9.7	.83	7.0	RIM105
0131	Northridge	1994	0117	1231	6.7	USC		90084	Lakewood - Del Amo Blvd	59.3	--D	C	.80	30.00	.058	1.6	.18	7.8	DEL-UP
0131	Northridge	1994	0117	1231	6.7	USC		90084	Lakewood - Del Amo Blvd	59.3	--D	C	.13	30.00	.137	11.2	1.98	11.0	DEL000
0131	Northridge	1994	0117	1231	6.7	USC		90084	Lakewood - Del Amo Blvd	59.3	--D	C	.20	30.00	.123	10.4	2.86	11.3	DEL090
0131	Northridge	1994	0117	1231	6.7	CDMG		24586	Neenach - Sacatara Ck #	53.2	IHD	B	.12	46.00	.047	7.2	3.10	25.9	NEE-UP
0131	Northridge	1994	0117	1231	6.7	CDMG		24586	Neenach - Sacatara Ck #	53.2	IHD	B	.12	46.00	.056	10.0	6.48	11.5	NEE090
0131	Northridge	1994	0117	1231	6.7	CDMG		24586	Neenach - Sacatara Ck #	53.2	IHD	B	.12	46.00	.069	13.1	8.22	13.1	NEE180
0131	Northridge	1994	0117	1231	6.7	CDMG		14578	Seal Beach - Office Bldg #	64.9	IQD	B	.16	46.00	.037	2.0	1.90	13.9	SEA-UP
0131	Northridge	1994	0117	1231	6.7	CDMG		14578	Seal Beach - Office Bldg #	64.9	IQD	B	.16	46.00	.061	5.8	1.99	12.3	SEA000
0131	Northridge	1994	0117	1231	6.7	CDMG		14578	Seal Beach - Office Bldg #	64.9	IQD	B	.16	46.00	.084	6.9	1.34	9.0	SEA090

NRC TIME HISTORY LIBRARY: WUS, SOIL, M=6-7, D=100-200 km

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0019	El Alamo	1956	1217	1433	6.8	USGS	117	El Centro Array #9	130.0	EQD	C	.50	20.00	.014	1.7	.77	24.8	ELC-UP
0019	El Alamo	1956	1217	1433	6.8	USGS	117	El Centro Array #9	130.0	EQD	C	.10	15.00	.033	4.1	2.89	23.0	ELC180
0019	El Alamo	1956	1217	1433	6.8	USGS	117	El Centro Array #9	130.0	EQD	C	.10	15.00	.052	6.6	4.93	17.3	ELC270
0028	Borrego Mtn	1968	0409	0203	6.8	USGS	130	LB - Terminal Island	195.0	CCD	C	.10	20.00	.005	1.6	1.76	31.9	A-TLI-UP
0028	Borrego Mtn	1968	0409	0203	6.8	USGS	130	LB - Terminal Island	195.0	CCD	C	.10	15.00	.010	2.8	2.53	32.8	A-TLI249
0028	Borrego Mtn	1968	0409	0203	6.8	USGS	130	LB - Terminal Island	195.0	CCD	C	.10	15.00	.009	3.0	5.46	28.6	A-TLI339
0030	San Fernando	1971	0209	1400	6.6	CIT	103	Anza Post Office	169.0	AAC	-	.50	35.00	.015	.7	.20	10.9	AZPDWN
0030	San Fernando	1971	0209	1400	6.6	CIT	103	Anza Post Office	169.0	AAC	-	.50	35.00	.027	1.4	.25	8.1	AZP045
0030	San Fernando	1971	0209	1400	6.6	CIT	103	Anza Post Office	169.0	AAC	-	.50	35.00	.037	2.2	.30	6.2	AZP315
0030	San Fernando	1971	0209	1400	6.6	USGS	1004	Bakersfield - Harvey Aud	120.0	CCD	-	.10	15.00	.007	.7	.69	18.6	BFA-UP
0030	San Fernando	1971	0209	1400	6.6	USGS	1004	Bakersfield - Harvey Aud	120.0	CCD	-	.10	13.00	.007	1.4	1.08	24.0	BFA180
0030	San Fernando	1971	0209	1400	6.6	USGS	1004	Bakersfield - Harvey Aud	120.0	CCD	-	.10	20.00	.007	1.2	1.23	21.3	BFA270
0030	San Fernando	1971	0209	1400	6.6	USGS	1	Buena Vista - Taft	118.0	AQD	-	.20	20.00	.007	.6	.41	11.5	BVPDWN
0030	San Fernando	1971	0209	1400	6.6	USGS	1	Buena Vista - Taft	118.0	AQD	-	.10	13.00	.012	1.5	1.51	13.2	BVP090
0030	San Fernando	1971	0209	1400	6.6	USGS	1	Buena Vista - Taft	118.0	AQD	-	.10	15.00	.012	1.3	.68	13.6	BVP180
0030	San Fernando	1971	0209	1400	6.6	CDMG	12331	Hemet Fire Station	136.0	AQD	C	.50	35.00	.026	1.5	.32	7.3	H05DWN
0030	San Fernando	1971	0209	1400	6.6	CDMG	12331	Hemet Fire Station	136.0	AQD	C	.50	35.00	.033	2.2	.38	7.2	H05135
0030	San Fernando	1971	0209	1400	6.6	CDMG	12331	Hemet Fire Station	136.0	AQD	C	.50	35.00	.047	2.6	.33	7.5	H05225
0030	San Fernando	1971	0209	1400	6.6	USGS	465	San Juan Capistrano	104.0	ABC	-	.50	35.00	.021	2.0	.67	18.9	SJCDWN
0030	San Fernando	1971	0209	1400	6.6	USGS	465	San Juan Capistrano	104.0	ABC	-	.50	35.00	.046	3.3	1.05	12.6	SJC033
0030	San Fernando	1971	0209	1400	6.6	USGS	465	San Juan Capistrano	104.0	ABC	-	.50	35.00	.035	3.7	.79	12.5	SJC303
0030	San Fernando	1971	0209	1400	6.6	USGS	282	UCSB-Fluid Mech Lab	125.6	CPD	-	.20	30.00	.011	1.3	.73	13.4	SBF-UP
0030	San Fernando	1971	0209	1400	6.6	USGS	282	UCSB-Fluid Mech Lab	125.6	CPD	-	.20	30.00	.017	2.7	1.41	13.7	SBF042
0030	San Fernando	1971	0209	1400	6.6	USGS	282	UCSB-Fluid Mech Lab	125.6	CPD	-	.20	30.00	.017	3.0	1.29	14.8	SBF132
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	12331	Hemet Fire Station	105.0	AQD	C	1.00	30.00	.027	.9	.07	14.0	A-H05-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	12331	Hemet Fire Station	105.0	AQD	C	.70	25.00	.038	1.4	.13	11.3	A-H05270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	12331	Hemet Fire Station	105.0	AQD	C	.80	25.00	.032	1.6	.10	9.2	A-H05360
0131	Northridge	1994	0117	1231	6.7	CDMG	13660	Hemet - Ryan Airfield #	144.1	IHD	-	.30	46.00	.027	2.0	.18	18.2	HEM-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	13660	Hemet - Ryan Airfield #	144.1	IHD	-	.30	46.00	.064	4.5	.66	11.3	HEM000
0131	Northridge	1994	0117	1231	6.7	CDMG	13660	Hemet - Ryan Airfield #	144.1	IHD	-	.30	46.00	.046	4.7	.51	10.9	HEM090
0131	Northridge	1994	0117	1231	6.7	CDMG	23672	San Bernandino - CSUSB Gr #	103.1	IHD	-	.30	46.00	.021	1.5	.25	15.6	BER-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23672	San Bernandino - CSUSB Gr #	103.1	IHD	-	.30	46.00	.034	2.8	.31	9.7	BER000
0131	Northridge	1994	0117	1231	6.7	CDMG	23672	San Bernandino - CSUSB Gr #	103.1	IHD	-	.30	46.00	.069	4.0	.77	7.7	BER090
0131	Northridge	1994	0117	1231	6.7	CDMG	23542	San Bernandino - E&Hospitality#	108.1	IHD	C	.20	46.00	.044	2.6	.51	17.3	HOS-UP

No.	Earthquake	Date & Time					No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0131	Northridge	1994	0117	1231	6.7	CDMG	23542	San Bernandino - E&Hospitality#	108.1	IHD	C	.20	46.00	.085	5.9	.97	9.1	HOS090
0131	Northridge	1994	0117	1231	6.7	CDMG	23542	San Bernandino - E&Hospitality#	108.1	IHD	C	.20	46.00	.096	6.5	1.34	9.4	HOS180
0131	Northridge	1994	0117	1231	6.7	CDMG	12673	San Jacinto - CDF Fire Sta #	146.5	IHD	-	.16	46.00	.022	3.7	1.27	24.6	CDF-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	12673	San Jacinto - CDF Fire Sta #	146.5	IHD	-	.16	46.00	.081	8.1	1.62	12.0	CDF000
0131	Northridge	1994	0117	1231	6.7	CDMG	12673	San Jacinto - CDF Fire Sta #	146.5	IHD	-	.16	46.00	.099	7.7	1.56	8.1	CDF090
0131	Northridge	1994	0117	1231	6.7	CDMG	25091	Santa Barbara-UCSB Goleta #	111.3	AHD	-	.20	23.00	.039	2.9	.74	9.3	SBG-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	25091	Santa Barbara-UCSB Goleta #	111.3	AHD	-	.20	23.00	.078	7.0	1.46	10.8	SBG000
0131	Northridge	1994	0117	1231	6.7	CDMG	25091	Santa Barbara-UCSB Goleta #	111.3	AHD	-	.20	23.00	.069	6.7	1.57	13.9	SBG090
0133	Kobe	1995	0116	2046	6.9		99999	FUK	157.2	--D	-	.05		.010	1.7	.67	28.2	FUK-UP
0133	Kobe	1995	0116	2046	6.9		99999	FUK	157.2	--D	-	.05		.034	4.3	1.28	23.2	FUK000
0133	Kobe	1995	0116	2046	6.9		99999	FUK	157.2	--D	-	.05		.042	5.3	2.08	23.8	FUK090

NRC TIME HISTORY LIBRARY: WUS, SOIL, M>7, D=0-10 km

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0006	Imperial Valley	1940	0519	0437	7.0	USGS	117	El Centro Array #9	8.3	EQD	C	.20	15.00	.205	10.7	9.16	7.6	I-ELC-UP
0006	Imperial Valley	1940	0519	0437	7.0	USGS	117	El Centro Array #9	8.3	EQD	C	.20	15.00	.313	29.8	13.32	11.3	I-ELC180
0006	Imperial Valley	1940	0519	0437	7.0	USGS	117	El Centro Array #9	8.3	EQD	C	.20	15.00	.215	30.2	23.91	16.9	I-ELC270
0046	Tabas, Iran	1978	0916		7.4		9101	Tabas	3.0	ABC	-	.05		.688	45.6	17.04	9.5	TAB-UP
0046	Tabas, Iran	1978	0916		7.4		9101	Tabas	3.0	ABC	-	.05		.836	97.8	36.92	8.3	TAB-LN
0046	Tabas, Iran	1978	0916		7.4		9101	Tabas	3.0	ABC	-	.05		.852	121.4	94.58	7.5	TAB-TR
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.20		.248	18.3	7.86	5.4	ERZ-UP
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.10		.515	83.9	27.35	1.5	ERZ-NS
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.10		.496	64.3	22.78	2.0	ERZ-EW
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89156	Petrolia #	9.5	IMD	C	.07	23.00	.163	24.5	31.78	5.8	PET-UP
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89156	Petrolia #	9.5	IMD	C	.07	23.00	.590	48.4	21.74	6.5	PET000
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89156	Petrolia #	9.5	IMD	C	.07	23.00	.662	89.7	29.55	2.7	PET090
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D	.00	40.00	.433	34.8	12.38	1.5	TAZ-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D	.00	40.00	.693	68.3	26.65	2.2	TAZ000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D	.13	33.00	.694	85.3	16.75	2.1	TAZ090
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D	.20		.272	16.0	4.47	7.5	TAK-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D			.611	127.1	35.77	6.0	TAK000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D			.616	120.7	32.72	4.8	TAK090
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Yarimca	4.4	B-D	C			.242	30.8	29.55	6.5	YPT-UP
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Yarimca	4.4	B-D	C	.10	80.00	.292	62.3	44.91	6.0	YPT270
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Yarimca	4.4	B-D	C	.10	80.00	.340	68.2	35.86	6.4	YPT000
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY024	9.0	--1	C	.03	50.00	.152	44.8	34.80	15.5	CHY024-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY024	9.0	--1	C	.02	50.00	.175	48.9	31.04	13.7	CHY024-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY024	9.0	--1	C	.02	50.00	.278	52.9	43.62	11.5	CHY024-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU049	4.4	--2	C	.02	50.00	.171	26.1	21.82	12.5	TCU049-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU049	4.4	--2	C	.02	30.00	.251	61.2	51.29	16.5	TCU049-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU049	4.4	--2	C	.02	50.00	.293	47.9	65.28	17.6	TCU049-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU051	8.2	---	C	.03	50.00	.114	34.6	24.56	17.3	TCU051-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU051	8.2	---	C	.03	50.00	.225	38.4	56.52	20.0	TCU051-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU051	8.2	---	C	.03	50.00	.186	49.3	70.26	17.4	TCU051-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU052	.2	--1	c	.04	50.00	.241	110.5	163.51	6.2	TCU052-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU052	.2	--1	c	.04	50.00	.419	118.4	246.15	5.8	TCU052-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU052	.2	--1	c	.04	50.00	.348	159.0	184.42	6.3	TCU052-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU060	9.4	--2	C	.02	50.00	.086	27.5	24.81	16.2	TCU060-V

Date & Time								Station	Closest	Site Codes		Filter Corners		PGA	PGV	PGD	Dur	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.		Dist (km)	Geom	USGS	HP (hz)	LP (hz)					
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU060	9.4	--2	C	.03	50.00	.106	45.3	45.56	20.3	TCU060-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU060	9.4	--2	C	.03	50.00	.201	36.3	51.89	17.6	TCU060-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU067	.3	--1	C	.04	50.00	.225	42.7	28.48	10.6	TCU067-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU067	.3	--1	C	.03	50.00	.325	66.6	45.95	7.6	TCU067-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU067	.3	--1	C	.02	50.00	.503	79.5	93.09	11.0	TCU067-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU068	1.0	--1	C	.02	50.00	.486	187.3	266.55	2.0	TCU068-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU068	1.0	--1	C	.02	50.00	.462	263.1	430.00	7.6	TCU068-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU068	1.0	--1	C	.03	50.00	.566	176.6	324.11	6.4	TCU068-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU072	7.3	--1	C	.05	50.00	.279	35.8	27.28	14.6	TCU072-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU072	7.3	--1	C	.05	50.00	.400	56.3	41.28	15.5	TCU072-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU072	7.3	--1	C	.05	50.00	.489	71.7	38.64	14.0	TCU072-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU076	1.9	--2	C	.02	50.00	.281	34.1	17.39	16.5	TCU075-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU076	1.9	--2	C	.05	50.00	.416	64.2	35.37	16.5	TCU076-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU076	1.9	--2	C	.10	50.00	.303	62.6	31.47	17.5	TCU076-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU082	5.7	--2	C	.04	50.00	.131	40.8	25.50	15.2	TCU082-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU082	5.7	--2	C	.04	50.00	.192	40.5	53.79	19.5	TCU082-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU082	5.7	--2	C	.02	50.00	.223	58.4	71.47	17.9	TCU082-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU101	2.9	--2	C	.03	50.00	.169	55.2	39.19	15.7	TCU101-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU101	2.9	--2	C	.04	50.00	.251	49.4	35.12	16.9	TCU101-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU101	2.9	--2	C	.01	50.00	.202	67.9	75.36	16.5	TCU101-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU102	1.7	--2	C	.02	50.00	.189	56.2	48.74	11.0	TCU102-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU102	1.7	--2	C	.05	50.00	.169	77.1	44.87	15.2	TCU102-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU102	1.7	--2	C	.04	50.00	.298	112.4	89.19	13.1	TCU102-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	40.00	.097	46.0	34.77	18.1	TCU128-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.05	30.00	.170	68.8	41.87	10.6	TCU128-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	30.00	.139	73.0	90.62	13.5	TCU128-W
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Duzce	6.7	--D	C	.06	50.00	.357	22.6	19.40	11.5	DZC-UP
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Duzce	6.7	--D	C	.06	50.00	.348	60.0	42.09	14.4	DZC180
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Duzce	6.7	--D	C	.08	50.00	.535	83.5	51.59	13.8	DZC270

NRC TIME HISTORY LIBRARY: WUS, SOIL, M>7, D=10-50 km

Date & Time									Closest	Site Codes	Filter Corners								
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
0046	Tabas, Iran	1978	0916		7.4		70	Boshrooyeh	26.1	--	C	-	.06		.084	11.6	8.36	15.8	BOS-V1
0046	Tabas, Iran	1978	0916		7.4		70	Boshrooyeh	26.1	--	C	-	.04	20.00	.107	13.7	10.50	14.7	BOS-L1
0046	Tabas, Iran	1978	0916		7.4		70	Boshrooyeh	26.1	--	C	-	.04	20.00	.089	18.0	18.27	14.8	BOS-T1
0113	Taiwan SMART1(45)	1986	1114		7.3		62	SMART1 I01	39.0	IZD	-	.10	25.00	.075	7.1	4.22	10.8	45I01DN	
0113	Taiwan SMART1(45)	1986	1114		7.3		62	SMART1 I01	39.0	IZD	-	.10	25.00	.132	30.5	9.05	10.4	45I01EW	
0113	Taiwan SMART1(45)	1986	1114		7.3		62	SMART1 I01	39.0	IZD	-	.10	25.00	.141	29.8	10.34	12.7	45I01NS	
0113	Taiwan SMART1(45)	1986	1114		7.3		29	SMART1 M07	39.0	IZD	-	.20	25.00	.106	8.6	3.19	10.0	45M07DN	
0113	Taiwan SMART1(45)	1986	1114		7.3		29	SMART1 M07	39.0	IZD	-	.10	25.00	.156	26.8	9.09	9.9	45M07EW	
0113	Taiwan SMART1(45)	1986	1114		7.3		29	SMART1 M07	39.0	IZD	-	.20	25.00	.160	22.5	7.62	9.4	45M07NS	
0113	Taiwan SMART1(45)	1986	1114		7.3		66	SMART1 O08	39.0	IZD	-	.10	25.00	.105	9.2	4.18	11.1	45O08DN	
0113	Taiwan SMART1(45)	1986	1114		7.3		66	SMART1 O08	39.0	IZD	-	.10	25.00	.142	24.5	9.33	12.8	45O08EW	
0113	Taiwan SMART1(45)	1986	1114		7.3		66	SMART1 O08	39.0	IZD	-	.10	25.00	.163	30.1	13.21	10.4	45O08NS	
0129	Landers	1992	0628	1158	7.3	CDMG	12025	Palm Springs Airport #	37.5	IQD	C	.07	23.00	.108	6.8	3.08	22.8	PSA-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12025	Palm Springs Airport #	37.5	IQD	C	.07	23.00	.076	10.9	6.95	25.5	PSA000	
0129	Landers	1992	0628	1158	7.3	CDMG	12025	Palm Springs Airport #	37.5	IQD	C	.07	23.00	.089	13.8	5.29	26.2	PSA090	
0129	Landers	1992	0628	1158	7.3	CDMG	22074	Yermo Fire Station #	24.9	AQD	C	.07	23.00	.136	12.9	4.82	13.4	YER-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	22074	Yermo Fire Station #	24.9	AQD	C	.07	23.00	.245	51.5	43.81	7.1	YER270	
0129	Landers	1992	0628	1158	7.3	CDMG	22074	Yermo Fire Station #	24.9	AQD	C	.07	23.00	.152	29.7	24.69	10.9	YER360	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Duzce	14.2	--	D	C	.08	20.00	.229	20.4	17.01	2.9	DZC-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Duzce	14.2	--	D	C	.00	20.00	.312	58.8	44.11	3.0	DZC180
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Duzce	14.2	--	D	C	.08	15.00	.358	46.4	17.61	1.8	DZC270
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	WGK	11.1	--	2	C	.06	33.00	.180	25.0	16.28	11.0	WGK-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	WGK	11.1	--	2	C	.07	50.00	.334	69.0	35.70	13.3	WGK-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	WGK	11.1	--	2	C	.06	50.00	.484	74.4	66.92	10.2	WGK-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY036	20.3	--	2	C	.04	50.00	.104	11.3	10.18	17.3	CHY036-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY036	20.3	--	2	C	.03	50.00	.207	41.4	34.17	12.3	CHY036-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY036	20.3	--	2	C	.05	50.00	.294	38.9	21.19	8.7	CHY036-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY101	11.1	--	2	C	.04	50.00	.165	28.0	19.73	13.0	CHY101-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY101	11.1	--	2	C	.04	50.00	.440	115.0	68.75	10.3	CHY101-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY101	11.1	--	2	C	.04	50.00	.353	70.6	45.28	13.5	CHY101-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA006	44.0	--	2	C	.03	50.00	.063	6.9	6.81	14.3	HWA006-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA006	44.0	--	2	C	.06	50.00	.089	9.2	6.11	9.3	HWA006-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA006	44.0	--	2	C	.06	50.00	.083	7.3	5.89	10.0	HWA006-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA030	46.3	--	2	C	.02	50.00	.049	8.2	11.65	12.5	HWA030-V

No.	Earthquake	Date & Time				Mag	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN							Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	HWA030	46.3	--2	C	.02	50.00	.079	13.8	8.48	10.6	HWA030-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	HWA030	46.3	--2	C	.02	50.00	.070	11.0	19.95	9.5	HWA030-W
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	HWA035	45.8	--2	C	.02	50.00	.054	7.5	9.60	12.1	HWA035-V
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	HWA035	45.8	--2	C	.02	50.00	.074	7.5	8.88	10.1	HWA035-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	HWA035	45.8	--2	C	.02	50.00	.078	11.9	16.89	11.4	HWA035-W
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TCU038	22.4	--2	C	.02	50.00	.067	34.6	28.80	19.2	TCU038-V
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TCU038	22.4	--2	C	.05	20.00	.168	44.9	43.60	13.1	TCU038-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TCU038	22.4	--2	C	.02	50.00	.141	48.9	64.17	15.9	TCU038-W
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TCU042	23.3	--2	C	.02	50.00	.086	19.7	24.09	16.0	TCU042-V
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TCU042	23.3	--2	C	.05	50.00	.199	39.3	23.86	14.8	TCU042-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TCU042	23.3	--2	C	.02	50.00	.246	44.8	46.91	12.7	TCU042-W

NRC TIME HISTORY LIBRARY: WUS, SOIL, M>7, D=50-100 km

No.	Earthquake	Date & Time			Mag	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN						Geom	USGS	HP (hz)	LP (hz)					
0129	Landers	1992	0628	1158	7.3	CDMG	12331	Hemet Fire Station #	69.5	AQD	C	.16	23.00	.063	3.0	1.60	23.9	H05-UP
0129	Landers	1992	0628	1158	7.3	CDMG	12331	Hemet Fire Station #	69.5	AQD	C	.16	23.00	.081	5.6	1.36	22.6	H05000
0129	Landers	1992	0628	1158	7.3	CDMG	12331	Hemet Fire Station #	69.5	AQD	C	.16	23.00	.097	5.7	2.27	21.3	H05090
0129	Landers	1992	0628	1158	7.3	CDMG	12026	Indio - Coachella Canal #	55.7	IQD	C	.10	23.00	.042	6.6	3.99	29.5	IND-UP
0129	Landers	1992	0628	1158	7.3	CDMG	12026	Indio - Coachella Canal #	55.7	IQD	C	.10	23.00	.104	9.6	5.05	25.2	IND000
0129	Landers	1992	0628	1158	7.3	CDMG	12026	Indio - Coachella Canal #	55.7	IQD	C	.10	23.00	.109	15.2	9.69	25.1	IND090
0129	Landers	1992	0628	1158	7.3	CDMG	23542	San Bernardino-E & Hospitality	80.5	--D	C	.10	50.00	.065	7.5	2.64	25.0	HOS-UP
0129	Landers	1992	0628	1158	7.3	CDMG	23542	San Bernardino-E & Hospitality	80.5	--D	C	.10	50.00	.078	19.8	10.49	20.3	HOS090
0129	Landers	1992	0628	1158	7.3	CDMG	23542	San Bernardino-E & Hospitality	80.5	--D	C	.10	50.00	.087	14.6	7.63	20.6	HOS180
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Cekmece	76.1	--D	C	.60	20.00	.046	3.4	.34	5.8	CEK-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Cekmece	76.1	--D	C	.30	20.00	.114	12.1	1.41	5.2	CEK000
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Cekmece	76.1	--D	C	.40	20.00	.105	6.4	.84	5.7	CEK270
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN	94.3	--2	C	.30	12.00	.013	2.7	.86	28.5	TTN-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN	94.3	--2	C	.10	12.00	.031	9.7	6.80	24.1	TTN-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN	94.3	--2	C	.11	12.00	.023	6.2	2.80	21.5	TTN-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY078	82.4	--2	C	.03	24.00	.021	5.3	6.40	29.0	CHY078-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY078	82.4	--2	C	.03	24.00	.045	9.6	7.93	26.5	CHY078-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY078	82.4	--2	C	.03	20.00	.093	14.2	7.16	20.5	CHY078-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA011	56.7	--2	C	.02	40.00	.039	10.0	10.86	19.0	HWA011-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA011	56.7	--2	C	.02	30.00	.102	22.0	13.76	13.3	HWA011-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA011	56.7	--2	C	.02	30.00	.089	21.3	26.83	11.5	HWA011-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA013	57.4	--2	C	.02	50.00	.064	8.3	11.31	19.0	HWA013-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA013	57.4	--2	C	.02	50.00	.118	22.0	11.63	11.8	HWA013-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA013	57.4	--2	C	.02	50.00	.142	31.2	27.00	13.4	HWA013-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA041	50.0	----	C	.02	30.00	.044	9.5	5.58	23.2	HWA041-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA041	50.0	----	C	.02	30.00	.082	18.9	7.48	19.8	HWA041-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA041	50.0	----	C	.02	30.00	.080	11.6	7.47	21.2	HWA041-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA064	83.4	----	C	.02	50.00	.050	8.8	9.46	15.4	ILA064-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA064	83.4	----	C	.02	50.00	.072	7.6	16.60	13.9	ILA064-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA064	83.4	----	C	.02	40.00	.062	9.0	7.97	13.8	ILA064-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU017	52.2	--2	C	.02	50.00	.050	15.6	16.36	24.3	TCU017-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU017	52.2	--2	C	.02	50.00	.121	31.9	32.55	11.1	TCU017-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU017	52.2	--2	C	.02	33.00	.088	42.7	49.82	15.1	TCU017-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN001	57.6	--2	C	.03	30.00	.041	8.7	6.61	22.7	TTN001-V

Date & Time								Closest Dist (km)	Site Codes		Filter Corners							Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.		Station	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN001	57.6	--2	C	.03	30.00	.094	14.4	7.38	17.1	TTN001-E	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN001	57.6	--2	C	.03	30.00	.063	9.3	5.91	22.2	TTN001-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN010	95.2	--2	C	.03	14.00	.010	3.0	4.13	34.2	TTN010-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN010	95.2	--2	C	.03	14.00	.029	7.4	3.95	25.8	TTN010-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN010	95.2	--2	C	.02	14.00	.019	7.8	9.13	25.4	TTN010-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN020	57.6	--2	C	.02	30.00	.023	4.8	4.13	28.8	TTN020-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN020	57.6	--2	C	.02	23.00	.030	7.5	6.44	22.6	TTN020-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN020	57.6	--2	C	.02	23.00	.035	9.0	9.49	23.4	TTN023-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN023	63.2	----	C	.03	30.00	.028	6.4	5.21	28.7	TTN023-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN023	63.2	----	C	.02	30.00	.067	12.0	5.61	29.3	TTN023-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN023	63.2	----	C	.02	30.00	.044	9.8	7.68	25.6	TTN023-W	

NRC TIME HISTORY LIBRARY: WUS, SOIL, M>7, D=100-200 km

Date & Time																		
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	Filter HP (hz)	Corners LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
012	Kern County	1952	0721	1153	7.4	USGS	135	LA - Hollywood Stor FF	120.5	IPD C	.20	20.00	.021	2.8	2.55	21.2	PEL-UP	
012	Kern County	1952	0721	1153	7.4	USGS	135	LA - Hollywood Stor FF	120.5	IPD C	.20	15.00	.042	7.5	4.79	18.4	PEL090	
012	Kern County	1952	0721	1153	7.4	USGS	135	LA - Hollywood Stor FF	120.5	IPD C	.20	13.00	.058	6.2	1.86	16.9	PEL180	
0046	Tabas, Iran	1978	0916		7.4		69	Bajestan	121.2	--C -	.05		.029	5.7	6.16	23.9	BAJ-V1	
0046	Tabas, Iran	1978	0916		7.4		69	Bajestan	121.2	--C -	.02	15.00	.094	7.6	10.77	20.4	BAJ-L1	
0046	Tabas, Iran	1978	0916		7.4		69	Bajestan	121.2	--C -	.02	15.00	.067	5.7	10.03	21.3	BAJ-T1	
0046	Tabas, Iran	1978	0916		7.4		73	Sedeh	164.5	--D -	.02	20.00	.013	6.1	11.61	24.7	SED-V1	
0046	Tabas, Iran	1978	0916		7.4		73	Sedeh	164.5	--D -	.02	20.00	.026	5.6	6.42	22.4	SED-L1	
0046	Tabas, Iran	1978	0916		7.4		73	Sedeh	164.5	--D -	.02	20.00	.027	4.1	4.91	21.8	SED-T1	
0129	Landers	1992	0628	1158	7.3	USC	90094	Bell Gardens - Jaboneria #	153.9	--D C	.65	25.00	.016	1.1	.18	24.3	JAB-UP	
0129	Landers	1992	0628	1158	7.3	USC	90094	Bell Gardens - Jaboneria #	153.9	--D C	.30	25.00	.036	4.7	1.48	19.8	JAB220	
0129	Landers	1992	0628	1158	7.3	USC	90094	Bell Gardens - Jaboneria #	153.9	--D C	.18	25.00	.044	10.5	4.74	16.1	JAB310	
0129	Landers	1992	0628	1158	7.3	USC	90012	Burbank - N Buena Vista #	162.1	--D C	.33	25.00	.023	4.7	1.03	27.6	BUE-UP	
0129	Landers	1992	0628	1158	7.3	USC	90012	Burbank - N Buena Vista #	162.1	--D C	.25	25.00	.049	7.2	2.18	23.4	BUE250	
0129	Landers	1992	0628	1158	7.3	USC	90012	Burbank - N Buena Vista #	162.1	--D C	.28	25.00	.068	10.4	2.86	19.7	BUE340	
0129	Landers	1992	0628	1158	7.3	USC	90002	Fountain Valley - Euclid #	148.8	--D C	.90	25.00	.014	1.0	.11	26.3	EUC-UP	
0129	Landers	1992	0628	1158	7.3	USC	90002	Fountain Valley - Euclid #	148.8	--D C	.13	25.00	.069	14.7	7.87	21.3	EUC022	
0129	Landers	1992	0628	1158	7.3	USC	90002	Fountain Valley - Euclid #	148.8	--D C	.13	25.00	.058	10.3	4.70	17.6	EUC292	
0129	Landers	1992	0628	1158	7.3	USC	90025	LA - E Vernon Ave #	157.7	--D C	.38	25.00	.019	2.2	.61	25.6	VER-UP	
0129	Landers	1992	0628	1158	7.3	USC	90025	LA - E Vernon Ave #	157.7	--D C	.13	25.00	.034	7.7	4.64	17.9	VER090	
0129	Landers	1992	0628	1158	7.3	USC	90025	LA - E Vernon Ave #	157.7	--D C	.18	25.00	.039	8.9	4.24	19.3	VER180	
0129	Landers	1992	0628	1158	7.3	USC	90080	LB - Orange Ave #	164.5	--D C	.50	25.00	.019	1.6	.30	24.5	OR2-UP	
0129	Landers	1992	0628	1158	7.3	USC	90080	LB - Orange Ave #	164.5	--D C	.15	25.00	3055	9.5	4.23	20.7	OR2010	
0129	Landers	1992	0628	1158	7.3	USC	90080	LB - Orange Ave #	164.5	--D C	.15	25.00	.061	11.1	4.40	20.2	OR2280	
0129	Landers	1992	0628	1158	7.3	USC	90077	Sante Fe Springs - E Joslin #	150.4	--D C	.35	25.00	.024	1.5	.47	22.6	EJS-UP	
0129	Landers	1992	0628	1158	7.3	USC	90077	Sante Fe Springs - E Joslin #	150.4	--D C	.18	25.00	.060	5.9	2.67	18.4	EJS030	
0129	Landers	1992	0628	1158	7.3	USC	90077	Sante Fe Springs - E Joslin #	150.4	--D C	.15	25.00	.047	9.2	4.23	17.1	EJS120	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	SGL	105.0	--2 C	.20	8.00	.008	2.4	.78	28.9	SGL-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	SGL	105.0	--2 C	.10	14.00	.038	7.7	3.74	24.2	SGL-E	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	SGL	105.0	--2 C	.20	14.00	.029	6.0	2.36	24.1	SGL-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA002	109.1	---- C	.02	30.00	.022	6.7	9.01	20.5	ILA002-V	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA002	109.1	---- C	.04	24.00	.073	10.7	7.70	18.0	ILA002-N	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA002	109.1	---- C	.02	24.00	.048	10.2	9.47	15.0	ILA002-W	
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP024	100.2	--2 C	.02	50.00	.023	7.9	9.62	26.8	TAP024-V	

No.	Earthquake	YR	Date & Time			Mag	Own	No.	Station	Closest	Site Codes		Filter Corners			PGA	PGV	PGD	Dur	Filename
			MODY	HRMN						Dist (km)	Geom	USGS	HP (hz)	LP (hz)						
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP024	100.2	--2	C	.02	50.00	.075	20.2	11.49	14.8		TAP024-S
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP024	100.2	--2	C	.02	50.00	.062	14.6	21.11	18.1		TAP024-W
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP046	127.2	--1	C	.02	30.00	.018	4.5	6.17	25.8		TAP046-V
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP046	127.2	--1	C	.02	30.00	.054	6.6	4.93	18.4		TAP046-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP046	127.2	--1	C	.02	24.00	.084	12.6	7.08	18.4		TAP046-W
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP084	127.7	----	C	.03	40.00	.012	5.5	7.73	25.7		TAP084-V
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP084	127.7	----	C	.02	40.00	.032	5.5	5.15	25.6		TAP084-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TAP084	127.7	----	C	.02	40.00	.035	6.9	10.30	17.6		TAP084-W
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TTN003	108.1	----	C	.02	20.00	.013	2.1	3.11	31.2		TTN003-V
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TTN003	108.1	----	C	.03	20.00	.018	3.0	2.18	25.7		TTN003-N
0142	Chi-Chi, Taiwan	1999	0920			7.6	CWB	99999	TTN003	108.1	----	C	.03	20.00	.023	3.3	4.17	24.6		TTN003-W

TABLE B-3: CEUS, ROCK
NRC TIME HISTORY LIBRARY: CEUS, ROCK, M=4.5-6, D=0-50 km

No.	Earthquake	Date & Time		Mag	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY						Geom	USGS	HP (hz)	LP (hz)					
0029	Lytle Creek	1970	0912	1430	5.4	CDWR	620 Devil's Canyon	21.9	CAA	-	1.10	30.00	.205	2.7	.16	.8	DCFDWN
0029	Lytle Creek	1970	0912	1430	5.4	CDWR	620 Devil's Canyon	21.9	CAA	-	1.00	20.00	.295	4.3	.16	.8	CDF090
0029	Lytle Creek	1970	0912	1430	5.4	CDWR	620 Devil's Canyon	21.9	CAA	-	1.00	30.00	.286	6.0	.20	1.2	DCF180
0029	Lytle Creek	1970	0912	1430	5.4	USGS	290 Wrightwood - 6074 Park Dr	15.4	BAB	B	.60	40.00	.158	3.3	.34	1.9	WTWDWN
0029	Lytle Creek	1970	0912	1430	5.4	USGS	290 Wrightwood - 6074 Park Dr	15.4	BAB	B	.60	20.00	.245	8.4	.90	1.6	WTW115
0029	Lytle Creek	1970	0912	1430	5.4	USGS	290 Wrightwood - 6074 Park Dr	15.4	BAB	B	.70	30.00	.317	11.0	.53	1.7	WTW205
0042	Fruili, Italy	1976	0911	1631	5.5		8022 San Rocco	17.9	ABA	-	.40	15.00	.023	2.3	.42	6.8	SRO-UP
0042	Fruili, Italy	1976	0911	1631	5.5		8022 San Rocco	17.9	ABA	-	.20	15.00	.044	1.9	.48	9.3	SRO-NS
0042	Fruili, Italy	1976	0911	1631	5.5		8022 San Rocco	17.9	ABA	-	.40	20.00	.086	3.6	.61	9.7	SRO-WE
0045	Santa Barbara	1978	0813		6.0	USGS	106 Cachuma Dam Toe	36.6	AAA	-	.20	29.00	.041	2.3	.41	5.1	CAD-UP
0045	Santa Barbara	1978	0813		6.0	USGS	106 Cachuma Dam Toe	36.6	AAA	-	.10	36.00	.120	4.8	.96	2.5	CAD250
0045	Santa Barbara	1978	0813		6.0	USGS	106 Cachuma Dam Toe	36.6	AAA	-	.20	30.00	.067	2.3	.38	2.8	CAD340
0054	Livermore	1980	0127	0233	5.4	CDMG	58219 APEEL 3E Hayward CSUH	31.0	AVA	B	.60	25.00	.023	1.2	.12	6.0	B-A3E-UP
0054	Livermore	1980	0127	0233	5.4	CDMG	58219 APEEL 3E Hayward CSUH	31.0	AVA	B	.30	20.00	.082	4.1	.44	8.5	B-A3E146
0054	Livermore	1980	0127	0233	5.4	CDMG	58219 APEEL 3E Hayward CSUH	31.0	AVA	B	.15	20.00	.043	1.4	.21	7.2	B-A3E236
0054	Livermore	1980	0127	0233	5.4	CDMG	57187 San Ramon - Eastman Kodak	17.6	ABB	C	.30	30.00	.058	5.4	.62	8.1	B-KOD-UP
0054	Livermore	1980	0127	0233	5.4	CDMG	57187 San Ramon - Eastman Kodak	17.6	ABB	C	.20	25.00	.340	16.3	2.05	8.9	B-KOD180
0054	Livermore	1980	0127	0233	5.4	CDMG	57187 San Ramon - Eastman Kodak	17.6	ABB	C	.25	25.00	.181	4.6	.45	10.3	B-KOD270
0045	Santa Barbara	1978	0813		6.0	USGS	106 Cachuma Dam Toe	36.6	AAA	-	.20	29.00	.041	2.3	.41	5.1	CAD-UP
0045	Santa Barbara	1978	0813		6.0	USGS	106 Cachuma Dam Toe	36.6	AAA	-	.10	36.00	.120	4.8	.96	2.5	CAD250
0045	Santa Barbara	1978	0813		6.0	USGS	106 Cachuma Dam Toe	36.6	AAA	-	.20	30.00	.067	2.3	.38	2.8	CAD340
0054	Livermore	1980	0127	0233	5.4	CDMG	58219 APEEL 3E Hayward CSUH	31.0	AVA	B	.60	25.00	.012	.1	.12	6.0	B-A3E-UP
0054	Livermore	1980	0127	0233	5.4	CDMG	58219 APEEL 3E Hayward CSUH	31.0	AVA	B	.30	20.00	.082	4.1	.44	8.5	B-A3E146
0054	Livermore	1980	0127	0233	5.4	CDMG	58219 APEEL 3E Hayward CSUH	31.0	AVA	B	.15	20.00	.043	1.4	.21	7.2	B-A3E236
0054	Livermore	1980	0127	0233	5.4	CDMG	57187 San Ramon - Eastman Kodak	17.6	ABB	C	.30	30.00	.058	5.4	.62	8.1	B-KOD-UP
0054	Livermore	1980	0127	0233	5.4	CDMG	57187 San Ramon - Eastman Kodak	17.6	ABB	C	.20	25.00	.340	16.3	2.05	8.9	B-KOD180
0054	Livermore	1980	0127	0233	5.4	CDMG	57187 San Ramon - Eastman Kodak	17.6	ABB	C	.25	25.00	.181	4.6	.45	10.3	B-KOD270
0065	Mammoth Lakes	1980	0611	0441	5.0	USC	40 USC Convict Lakes	9.1	AAB	-	1.00	40.00	.104	.5	.02	2.1	H-XCV-UP
0065	Mammoth Lakes	1980	0611	0441	5.0	USC	40 USC Convict Lakes	9.1	AAB	-	2.00	30.00	.060	.7	.02	1.9	H-XCV075
0065	Mammoth Lakes	1980	0611	0441	5.0	USC	40 USC Convict Lakes	9.1	AAB	-	2.00	30.00	.111	1.0	.02	1.4	H-XCV165
0079	Coalinga	1983	0709	0740	5.2	USGS	1607 Anticline Ridge Free-Field	11.0	IPA	-	.30	40.00	.215	4.9	.59	2.0	C-ATC-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1607 Anticline Ridge Free-Field	11.0	IPA	-	.30	30.00	.660	14.2	1.00	1.6	C-ATC270
0079	Coalinga	1983	0709	0740	5.2	USGS	1607 Anticline Ridge Free-Field	11.0	IPA	-	.45	40.00	.716	10.3	.38	1.5	C-ATC360

		Date & Time						Closest Dist (km)	Site Codes		Filter Corners				Dur (s)	Filename		
No.	Earthquake	YR	MODY	HRM N	Mag	Own	No.		Station	Geom	USGS	HP (hz)	LP (hz)	PGA (g)			PGV (g)	PGD (cm/s)
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Pad	11.0	APA	—	.30	30.00	.290	6.7	.48	1.8	C-ATP-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Pad	11.0	APA	—	.40	30.00	.943	14.6	.93	1.2	C-ATP270
0079	Coalinga	1983	0709	0740	5.2	USGS	1607	Anticline Ridge Pad	11.0	APA	—	.40	25.00	.556	9.9	.45	1.6	C-ATP360
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	10.0	APB	—	.40	30.00	.408	6.1	.32	2.3	C-OLC-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	10.0	APB	—	.20	30.00	.702	15.0	1.30	1.6	C-OLC270
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	10.0	APB	—	.20	30.00	.647	10.8	.59	2.0	C-OLC360
0079	Coalinga	1983	0709	0740	5.2	USGS	1651	Transmitter Hill	10.4	APA	—	.30	30.00	.219	4.7	.39	3.2	C-TSM-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1651	Transmitter Hill	10.4	APA	—	.20	25.00	.368	10.6	.92	2.7	C-TSM270
0079	Coalinga	1983	0709	0740	5.2	USGS	1651	Transmitter Hill	10.4	APA	—	.30	30.00	.338	8.6	.70	3.0	C-TSM360
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	8.2	APB	—	.60	30.00	1.046	21.2	1.78	2.1	D-OLC-UP
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	8.2	APB	—	.15	30.00	1.586	40.8	5.14	1.8	D-OLC270
0079	Coalinga	1983	0709	0740	5.2	USGS	1604	Oil City	8.2	APB	—	.80	30.00	.720	20.9	1.68	1.7	D-OLC360
0080	Coalinga	1983	0722	0239	5.8	USGS	1609	Palmer Ave	12.2	APB	—	.20	25.00	.413	9.6	1.67	3.4	D-PLM-UP
0080	Coalinga	1983	0722	0239	5.8	USGS	1609	Palmer Ave	12.2	APB	—	.06	20.00	.477	14.3	1.52	3.2	D-PLM270
0080	Coalinga	1983	0722	0239	5.8	USGS	1609	Palmer Ave	12.2	APB	—	.09	20.00	.509	20.7	1.88	2.8	D-PLM360
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5043	Hurkey Creek Park	34.9	AQB	B	.40	50.00	.192	5.0	.74	5.4	HCP-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5043	Hurkey Creek Park	34.9	AQB	B	.60	50.00	.509	6.5	.44	6.8	HCP045
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5043	Hurkey Creek Park	34.9	AQB	B	.50	50.00	.292	8.1	.70	6.5	HCP135
0017	Whittier Narrows	1987	1001	1442	6.0	USGS	709	Garvey Res. - Control Bldg.	12.1	APB	—	.70	40.00	.844	14.0	1.04	2.4	A-GRV-UP
0017	Whittier Narrows	1987	1001	1442	6.0	USGS	709	Garvey Res. - Control Bldg.	12.1	APB	—	.15	40.00	.556	15.1	1.56	3.3	A-GRV060
0017	Whittier Narrows	1987	1001	1442	6.0	USGS	709	Garvey Res. - Control Bldg.	12.1	APB	—	.20	40.00	.796	17.9	2.20	2.4	A-GRV330

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M=4.5-6, D=50-100 km

B-45

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0014	Southern Calif	1952	1122	0746	6.0	USGS	1083	San Luis Obispo	70.0	CBB	-	.20	13.00	.055	2.3	.59	3.2	SLO-UP
0014	Southern Calif	1952	1122	0746	6.0	USGS	1083	San Luis Obispo	70.0	CBB	-	.20	13.00	.073	2.7	.54	3.0	SLO234
0014	Southern Calif	1952	1122	0746	6.0	USGS	1083	San Luis Obispo	70.0	CBB	-	.50	13.00	.109	2.8	.40	2.7	SLO324
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5231	Anza - Tule Canyon	55.4	AGA	B	.40	30.00	.121	3.5	.41	8.0	ATL-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5231	Anza - Tule Canyon	55.4	AGA	B	.30	30.00	.209	6.3	.55	8.8	ATL270
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5231	Anza - Tule Canyon	55.4	AGA	B	.35	35.00	.156	7.4	.52	8.6	ATL360
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	707	Lake Mathews Dike Toe	73.7	AJA	-	2.00	40.00	.122	1.0	.02	8.7	LMR-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	707	Lake Mathews Dike Toe	73.7	AJA	-	1.00	50.00	.130	2.1	.08	7.5	LMR162
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	707	Lake Mathews Dike Toe	73.7	AJA	-	1.00	35.00	.120	1.6	.03	7.8	LMR252
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13198	Murrieta Hot Springs	63.3	IGA	A	.50	28.00	.066	1.7	.24	9.1	H01-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13198	Murrieta Hot Springs	63.3	IGA	A	.50	40.00	.109	2.1	.21	7.7	H01000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13198	Murrieta Hot Springs	63.3	IGA	A	.50	40.00	.099	2.1	.17	6.6	H01090
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	12168	Puerta La Cruz	71.9	AQB	B	.20	44.00	.078	2.3	.27	10.2	PLC-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	12168	Puerta La Cruz	71.9	AQB	B	.20	38.00	.144	2.8	.17	11.2	PLC258
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	12168	Puerta La Cruz	71.9	AQB	B	.20	32.00	.121	1.9	.18	11.2	PLC348
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13123	Riverside Airport	71.1	AQB	B	.50	48.00	.061	1.0	.15	10.8	RIV-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13123	Riverside Airport	71.1	AQB	B	.50	40.00	.123	1.3	.11	11.9	RIV180
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13123	Riverside Airport	71.1	AQB	B	.50	42.00	.099	1.2	.09	9.8	RIV270
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13172	Temecula Fire Station	73.2	AQB	C	.50	27.00	.079	1.7	.25	9.0	TFS-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13172	Temecula Fire Station	73.2	AQB	C	.50	25.00	.228	5.9	.47	8.8	TFS000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	13172	Temecula Fire Station	73.2	AQB	C	.50	25.00	.164	4.8	.59	10.0	TFS090
0048	Saguenay	1988	1123	0911	4.5	Ms	0	ECTN: A54	99.4	-AA	-	.20	30.00	.001	.0	.00	22.9	A54-Z
0048	Saguenay	1988	1123	0911	4.5	Ms	0	ECTN: A54	99.4	-AA	-	.20	30.00	.001	.0	.00	18.9	A54-N
0048	Saguenay	1988	1123	0911	4.5	Ms	0	ECTN: A54	99.4	-AA	-	.40	30.00	.001	.0	.00	15.6	A54-E
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A54	91.4	-AA	-	.40	25.00	.014	.3	.04	18.9	1125A54Z
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A54	91.4	-AA	-	.33	22.00	.015	.3	.05	13.0	1125A54E
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A54	91.4	-AA	-	.40	23.00	.014	.3	.05	16.6	1125A54N
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A61	91.9	-AA	-	.50	30.00	.014	.3	.04	18.3	1125A61Z
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A61	91.9	-AA	-	.40	20.00	.014	.3	.04	20.6	1125A61E
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A61	91.9	-AA	-	.60	23.00	.014	.4	.05	18.6	1125A61N
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A64	99.1	-AA	-	.80	20.00	.014	.4	.03	19.4	1125A64Z
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A64	99.1	-AA	-	.40	22.00	.014	.3	.05	23.7	1125A64E
0049	Saguenay	1988	1125	2346	5.9		0	ECTN: A64	99.1	-AA	-	.90	25.00	.013	.4	.03	16.0	1125A64N
0049	Saguenay	1988	1125	2346	5.9		8	GSC Site 8 - La Malbaie, Que	97.5	ABA	-	.20	30.00	.066	1.7	.12	22.7	1125S08V

Date & Time										Closest	Site Codes		Filter Corners						
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
0049	Saguenay	1988	1125	2346	5.9		8	GSC Site 8 - La Malbaie, Que	97.5	ABA	-	.25	.00	.134	4.6	.48	10.4	1125S08L	
0049	Saguenay	1988	1125	2346	5.9		8	GSC Site 8 - La Malbaie, Que	97.5	ABA	-	.25	30.00	.058	1.4	.13	21.0	1125S08T	
0049	Saguenay	1988	1125	2346	5.9		16	GSC Site 16 - Chicoutimi-Nord	51.9	CAA	-	.40	.00	.101	2.1	.10	24.2	1125S16V	
0049	Saguenay	1988	1125	2346	5.9		16	GSC Site 16 - Chicoutimi-Nord	51.9	CAA	-	.60	.00	.109	1.8	.07	19.1	1125S16L	
0049	Saguenay	1988	1125	2346	5.9		16	GSC Site 16 - Chicoutimi-Nord	51.9	CAA	-	.40	.00	.130	2.7	.14	21.7	1125S16T	
0049	Saguenay	1988	1125	2346	5.9		17	GSC Site 17 - St-Andre-Du-Lac	70.3	IAA	-	.70	.00	.042	.8	.03	25.9	1125S17V	
0049	Saguenay	1988	1125	2346	5.9		17	GSC Site 17 - St-Andre-Du-Lac	70.3	IAA	-	.70	.00	.169	1.6	.08	14.9	1125S17L	
0049	Saguenay	1988	1125	2346	5.9		17	GSC Site 17 - St-Andre-Du-Lac	70.3	IAA	-	.50	.00	.096	1.1	.04	17.8	1125S17T	
0049	Saguenay	1988	1125	2346	5.9		20	GSC Site 20 - Les Eboulements	95.0	IAA	-	.50	.00	.237	5.1	.25	33.5	1125S20V	
0049	Saguenay	1988	1125	2346	5.9		20	GSC Site 20 - Les Eboulements	95.0	IAA	-	.40	.00	.148	3.8	.33	11.6	1125S20L	
0049	Saguenay	1988	1125	2346	5.9		20	GSC Site 20 - Les Eboulements	95.0	IAA	-	.40	45.00	.104	2.5	.22	29.0	1125S20T	

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M=6-7, D=0-10 km

Date & Time						Closest Site Codes Filter Corners												
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0001	Helena, Montana	1935	1031	1838	6.2		2022	Carroll College	8.0	EZA	-	.20	15.00	.271	13.9	3.50		A-HMCDWN
0001	Helena, Montana	1935	1031	1838	6.2		2022	Carroll College	8.0	EZA	-	.20	15.00	.400	8.9	.91		A-HMC180
0001	Helena, Montana	1935	1031	1838	6.2		2022	Carroll College	8.0	EZA	-	.20	15.00	.436	19.2	2.45		A-HMC270
0025	Parkfield	1966	0628	0426	6.1	CDMG	1015	Cholame #8	9.2	ABB	C	.20	24.00	.391	10.3	2.35		C08DWN
0025	Parkfield	1966	0628	0426	6.1	CDMG	1015	Cholame #8	9.2	ABB	C	.20	20.00	.592	12.4	3.71		C08050
0025	Parkfield	1966	0628	0426	6.1	CDMG	1015	Cholame #8	9.2	ABB	C	.20	20.00	.541	12.4	2.59		C08320
0025	Parkfield	1966	0628	0426	6.1	CDMG	1438	Tembler pre-1969	9.9	IJA	B	.20	16.00	.412	7.6	2.23		TMBDWN
0025	Parkfield	1966	0628	0426	6.1	CDMG	1438	Tembler pre-1969	9.9	IJA	B	.20	14.00	.989	21.2	2.40		TMB205
0025	Parkfield	1966	0628	0426	6.1	CDMG	1438	Tembler pre-1969	9.9	IJA	B	.20	15.00	.689	18.8	3.31		TMB295
0030	San Fernando	1971	0209	1400	6.6	CDMG	279	Pacoima Dam	2.8	AMB	A	.10	35.00	2.509	83.1	30.37		PCDDWN
0030	San Fernando	1971	0209	1400	6.6	CDMG	279	Pacoima Dam	2.8	AMB	A	.10	35.00	3.033	86.3	28.57		PCD164
0030	San Fernando	1971	0209	1400	6.6	CDMG	279	Pacoima Dam	2.8	AMB	A	.50	35.00	3.199	53.1	9.86		PCD254
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	3.888	165.1	40.63		GAZ-UP
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	1.760	62.5	24.10		GAZ000
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	2.349	67.0	29.5		GAZ090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57127	Coyote Lake Dam (SW Abut)	.1	IFA	-	.10	50.00	1.164	30.1	5.28		CYC-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57127	Coyote Lake Dam (SW Abut)	.1	IFA	-	.10	39.00	1.608	43.9	9.92		CYC195
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57127	Coyote Lake Dam (SW Abut)	.1	IFA	-	.10	45.00	3.372	79.4	10.81		CYC285
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	30.00	.927	22.6	2.77		G06-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	35.00	.465	12.3	2.22		G06000
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	27.00	.608	36.2	6.69		G06090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90019	San Gabriel - E Grand Ave #	9.0	--A	A	.35	25.00	.785	10.2	.92		A-GRN-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90019	San Gabriel - E Grand Ave #	9.0	--A	A	.35	25.00	.731	30.5	3.04		A-GRN180
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90019	San Gabriel - E Grand Ave #	9.0	--A	A	.35	25.00	.534	11.7	.92		A-GRN270
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	32.00	1.300	28.8	9.34		CLS-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	40.00	1.328	57.4	7.22		CLS000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	40.00	1.080	49.4	7.43		CLS090
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC	6.1	--A	-	.10	.00	1.758	69.5	29.72		LGP-UP
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC	6.1	--A	-	.10	.00	1.647	99.9	43.46		LGP000
0122	Loma Prieta	1989	1018	0005	6.9	UCSC	16	LGPC	6.1	--A	-	.10	.00	1.518	52.1	12.18		LGP090
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (downst) #	8.0	AGA	A	.75	23.00	.591	24.7	2.45		PAC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (downst) #	8.0	AGA	A	.16	23.00	1.381	44.0	5.94		PAC175
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (downst) #	8.0	AGA	A	.16	23.00	1.264	31.1	6.39		PAC265
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (upper left) #	8.0	IGA	A	.16	23.00	4.253	103.2	13.24		PUL-UP

Date & Time										Closest Dist (km)	Site Codes		Filter Corners					Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Geom		USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (upper left) #	8.0	IGA	A	.16	23.00	3.942	65.0	6.12	PUL104		
0131	Northridge	1994	0117	1231	6.7	CDMG	24207	Pacoima Dam (upper left) #	8.0	IGA	A	.16	23.00	3.592	87.0	15.32	PUL194		
0131	Northridge	1994	0117	1231	6.7	CDMG	24088	Pacoima Kagel Canyon #	8.2	AMB	B	.20	23.00	.559	23.7	9.84	PKC-UP		
0131	Northridge	1994	0117	1231	6.7	CDMG	24088	Pacoima Kagel Canyon #	8.2	AMB	B	.14	23.00	.752	34.3	11.48	PKC090		
0131	Northridge	1994	0117	1231	6.7	CDMG	24088	Pacoima Kagel Canyon #	8.2	AMB	B	.14	23.00	.978	48.5	8.38	PKC360		
0131	Northridge	1994	0117	1231	6.7		99999	KJMA	.6	--	B	B	.05	.00	1.137	70.7	17.19	KJM-UP	
0131	Northridge	1994	0117	1231	6.7		99999	KJMA	.6	--	B	B	.05	.00	2.124	88.8	18.65	KJM000	
0131	Northridge	1994	0117	1231	6.7		99999	KJMA	.6	--	B	B	.05	.00	1.757	80.4	17.71	KJM090	
0004	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	--	.00	.03	1.260	454.0	230.10	E_GAZ-UP		
0004	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	--	.00	.03	.600	865.0	425.20	E_GAZ000		
0004	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	--	.00	.03	.710	871.0	623.70	E_GAZ090		
0041	Nahanni	1985	1223	0516	6.8		6097	NW TERR, CANADA: MACKENZIE, ST1	6.0	IZA	--	.20	62.00	2.086	40.5	12.12	S1-UP		
0041	Nahanni	1985	1223	0516	6.8		6097	NW TERR, CANADA: MACKENZIE, ST1	6.0	IZA	--	.05	62.00	.978	46.0	9.67	S1010		
0041	Nahanni	1985	1223	0516	6.8		6097	NW TERR, CANADA: MACKENZIE, ST1	6.0	IZA	--	.05	62.00	1.096	46.1	14.58	S1280		

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M=6-7, D=10-50 km

Date & Time						Closest Site Codes Filter Corners												
No.	Earthquake	YR	MODY	HRMN	Ma g	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0030	San Fernando	1971	0209	1400	6.6	USGS	126	Lake Hughes #4	24.2	IGA	B	.50	35.00	.386	9.6	1.78	5.0	L04DWN
0030	San Fernando	1971	0209	1400	6.6	USGS	126	Lake Hughes #4	24.2	IGA	B	.50	35.00	.488	8.3	1.17	6.1	L04111
0030	San Fernando	1971	0209	1400	6.6	USGS	126	Lake Hughes #4	24.2	IGA	B	.50	35.00	.418	12.4	1.40	6.3	L04201
0030	San Fernando	1971	0209	1400	6.6	CDMG	285	Santa Felita Dam (Outlet)	27.5	ABA	-	.10	20.00	.161	8.0	3.75	8.3	FSD-UP
0030	San Fernando	1971	0209	1400	6.6	CDMG	285	Santa Felita Dam (Outlet)	27.5	ABA	-	.10	20.00	.344	9.1	6.28	7.3	FSD172
0030	San Fernando	1971	0209	1400	6.6	CDMG	285	Santa Felita Dam (Outlet)	27.5	ABA	-	.10	13.00	.370	8.5	2.87	6.5	FSD262
0050	Imperial Valley	1979	1015	2316	6.5	USGS	286	Superstition Mtn Camera	26.0	AGA	B	.10	40.00	.190	3.7	1.57	5.8	H-SUP-UP
0050	Imperial Valley	1979	1015	2316	6.5	USGS	286	Superstition Mtn Camera	26.0	AGA	B	.10	40.00	.229	6.2	1.86	6.1	H-SUP045
0050	Imperial Valley	1979	1015	2316	6.5	USGS	286	Superstition Mtn Camera	26.0	AGA	B	.10	40.00	.533	9.2	2.50	5.7	H-SUP135
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54214	Long Valley Dam (L Abut)	19.7	IVA	-	.40	50.00	.178	6.6	.79	5.3	A-LVL-UP
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54214	Long Valley Dam (L Abut)	19.7	IVA	-	.35	50.00	.230	8.1	.93	6.7	A-LVL000
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG	54214	Long Valley Dam (L Abut)	19.7	IVA	-	.20	50.00	.129	5.8	2.19	6.5	A-LVL090
0061	Mammoth Lakes	1980	0527	1451	6.0	CDMG	54424	Bishop - Paradise Lodge	43.7	AVA	-	.20	50.00	.248	6.3	1.40	4.9	L-BPL-UP
0061	Mammoth Lakes	1980	0527	1451	6.0	CDMG	54424	Bishop - Paradise Lodge	43.7	AVA	-	.20	40.00	.195	6.7	1.90	5.4	L-BPL070
0061	Mammoth Lakes	1980	0527	1451	6.0	CDMG	54424	Bishop - Paradise Lodge	43.7	AVA	-	.20	40.00	.263	6.3	1.71	5.8	L-BPL160
0064	Victoria, Mexico	1980	0609	0328	6.1	UNAMUCSD	6604	Cerro Prieto	34.8	AVA	B	.20	62.00	.819	20.8	8.49	5.3	CPE-UP
0064	Victoria, Mexico	1980	0609	0328	6.1	UNAMUCSD	6604	Cerro Prieto	34.8	AVA	B	.20	62.00	2.070	46.3	19.77	3.8	CPE045
0064	Victoria, Mexico	1980	0609	0328	6.1	UNAMUCSD	6604	Cerro Prieto	34.8	AVA	B	.20	62.00	1.623	23.6	9.49	4.5	CPE315
0076	Coalinga	1983	0502	2342	6.4	CDMG	36453	Parkfield - Fault Zone 11	28.4	IMB	-	.20	28.00	.115	8.7	3.90	12.5	H-Z11-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36453	Parkfield - Fault Zone 11	28.4	IMB	-	.20	21.00	.187	11.1	3.63	19.3	H-Z11000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36453	Parkfield - Fault Zone 11	28.4	IMB	-	.20	28.00	.167	7.4	1.40	18.8	H-Z11090
0076	Coalinga	1983	0502	2342	6.4	CDMG	36420	Parkfield - Gold Hill 3W	38.8	IPB	-	.20	36.00	.175	10.9	3.20	14.1	H-PG3-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36420	Parkfield - Gold Hill 3W	38.8	IPB	-	.20	30.00	.246	11.9	2.91	17.4	H-PG3000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36420	Parkfield - Gold Hill 3W	38.8	IPB	-	.20	30.00	.219	9.4	1.67	14.6	H-PG3090
0076	Coalinga	1983	0502	2342	6.4	CDMG	36230	Parkfield - Cholame 2E	40.5	UB	-	.50	26.00	.040	3.7	.93	12.7	H-TM2-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36230	Parkfield - Cholame 2E	40.5	UB	-	.50	23.00	.053	3.0	.69	13.0	H-TM2000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36230	Parkfield - Cholame 2E	40.5	UB	-	.50	22.00	.081	5.2	1.77	14.4	H-TM2090
0076	Coalinga	1983	0502	2342	6.4	CDMG	36446	Parkfield - Vineyard Cany 4W	34.6	IMB	-	.20	30.00	.057	5.1	1.03	10.1	H-VC4-UP
0076	Coalinga	1983	0502	2342	6.4	CDMG	36446	Parkfield - Vineyard Cany 4W	34.6	IMB	-	.20	30.00	.108	6.6	1.35	12.7	H-VC4000
0076	Coalinga	1983	0502	2342	6.4	CDMG	36446	Parkfield - Vineyard Cany 4W	34.6	IMB	-	.20	27.00	.085	5.2	.94	13.1	H-VC4090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57007	Corralitos	22.7	APB	B	.20	27.00	.080	7.2	1.01	6.5	CLS-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57007	Corralitos	22.7	APB	B	.20	24.00	.155	7.5	1.14	14.3	CLS220
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57007	Corralitos	22.7	APB	B	.20	26.00	.206	13.5	1.33	15.1	CLS310
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	30.00	.901	21.2	2.55	2.8	G06-UP

No.	Earthquake	Date & Time			Ma g	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN						Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	35.00	.455	12.5	2.38	3.0	G06000
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	57383	Gilroy Array #6	11.8	IKB	B	.10	27.00	.613	39.0	7.18	5.4	G06090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	47006	Gilroy - Gavilian Coll.	16.2	AFB	B	.50	42.00	.161	3.5	.55	5.7	GIL-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	47006	Gilroy - Gavilian Coll.	16.2	AFB	B	.10	30.00	.276	5.2	.83	7.1	GIL067
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	47006	Gilroy - Gavilian Coll.	16.2	AFB	B	.10	30.00	.196	3.6	.97	10.3	GIL337
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5230	Santa Rosa Mountain	43.8	AGA	-	1.00	50.00	.121	2.5	.17	6.5	ARS-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5230	Santa Rosa Mountain	43.8	AGA	-	1.50	60.00	.286	4.0	.13	6.5	ARS270
0103	N. Palm Springs	1986	0708	0920	6.0	USGS	5230	Santa Rosa Mountain	43.8	AGA	-	1.50	60.00	.303	2.9	.13	6.5	ARS360
0041	Nahanni	1985	1223	0516	6.8	Ms	6099	NW TERR, CANADA: MACKENZIE, ST3	16.0	IZA	-	.05	62.00	.140	6.8	3.02	6.8	S3-UP
0041	Nahanni	1985	1223	0516	6.8	Ms	6099	NW TERR, CANADA: MACKENZIE, ST3	16.0	IZA	-	.10	62.00	.148	6.1	3.13	6.8	S3270
0041	Nahanni	1985	1223	0516	6.8	Ms	6099	NW TERR, CANADA: MACKENZIE, ST3	16.0	IZA	-	.05	62.00	.139	3.3	1.06	7.3	S3360

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M=6-7, D=50-100 km

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Date & Time								Closest	Site Codes		Filter Corners				Dur	Filename		
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)			PGV (g)	PGD (cm/s)
0025	Parkfield	1966	0628	0426	6.1	USGS	1083	San Luis Obispo	60.0	CBB	-	.20	15.00	.020	1.1	.45	5.4	SLO-UP
0025	Parkfield	1966	0628	0426	6.1	USGS	1083	San Luis Obispo	60.0	CBB	-	.20	15.00	.033	1.0	.29	5.8	SLO234
0025	Parkfield	1966	0628	0426	6.1	USGS	1083	San Luis Obispo	60.0	CBB	-	.20	12.00	.030	1.0	.40	5.8	SLO324
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.026	1.8	.62	6.5	CSMDWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.050	1.9	.39	6.0	CSM095
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.035	1.2	.51	6.7	CSM185
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland - San Antonio Dam	58.1	AAA	B	.50	35.00	.098	2.1	.69	8.8	SODDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland - San Antonio Dam	58.1	AAA	B	.50	35.00	.159	3.0	.46	8.9	SOD015
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland - San Antonio Dam	58.1	AAA	B	.50	35.00	.185	4.2	.46	9.4	SOD285
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas - N Las Virg #	53.3	--B	B	.40	25.00	.086	2.7	.27	12.2	A-VIR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas - N Las Virg #	53.3	--B	B		25.00	.119	2.8	.29	11.4	A-VIR200
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90052	Calabasas - N Las Virg #	53.3	--B	B		25.00	.075	1.5	.15	11.7	A-VIR290
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaic - Hasley Canyon	70.9	A-B	-	.50	20.00	.048	2.9	.32	13.5	A-CSH-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaic - Hasley Canyon	70.9	A-B	-	.70	15.00	.063	2.3	.20	15.9	A-CSH000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24277	Castaic - Hasley Canyon	70.9	A-B	-	.50	15.00	.072	2.5	.40	17.0	A-CSH090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	B	1.00	23.00	.067	2.0	.15	15.2	A-ORR-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	B	.80	15.00	.127	5.1	.43	20.1	A-ORR000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24278	Castaic - Old Ridge Route	78.3	A-B	B	.80	20.00	.111	4.6	.41	21.6	A-ORR090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu - Point Dume Sch	65.3	AMB	B	.35	30.00	.080	3.3	.26	13.1	A-MAL-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu - Point Dume Sch	65.3	AMB	B	.35	25.00	.102	3.2	.30	16.4	A-MAL180
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24396	Malibu - Point Dume Sch	65.3	AMB	B	.60	20.00	.085	2.5	.20	17.7	A-MAL270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	3.00	50.00	.124	1.4	.03	10.8	A-RIV-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	1.70	35.00	.148	2.0	.06	9.9	A-RIV180
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	13123	Riverside Airport	56.8	AQB	B	2.00	45.00	.133	2.3	.06	8.6	A-RIV270
0124	Georgia, USSR	1991	0615	0059	6.2		18	Ambralaui	73.7	A-A	-	.10	.00	.018	1.7	.55	15.8	AMB-Z
0124	Georgia, USSR	1991	0615	0059	6.2		18	Ambralaui	73.7	A-A	-	.10	.00	.035	1.9	.57	16.4	AMB-X
0124	Georgia, USSR	1991	0615	0059	6.2		18	Ambralaui	73.7	A-A	-	.10	.00	.035	1.5	.34	17.0	AMB-Y
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte - Mel Canyon Rd.	51.6	--B	B	.90	30.00	.158	4.3	.29	12.9	MEL-UP
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte - Mel Canyon Rd.	51.6	--B	B	.10	30.00	.154	5.0	1.63	13.5	MEL090
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte - Mel Canyon Rd.	51.6	--B	B	.30	30.00	.066	2.8	.39	11.9	MEL180
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can#	80.0	IGA	A	.30	46.00	.068	4.4	.67	17.8	CUC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can#	80.0	IGA	A	.30	46.00	.149	4.4	.66	17.6	CUC090
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can#	80.0	IGA	A	.30	46.00	.100	6.5	.82	18.4	CUC180
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes - Hawth#	55.2	AMA	A	.30	23.00	.160	3.7	.67	9.8	RAN-UP

Date & Time								Closest	Site Codes		Filter Corners				PGD	Dur	Filename	
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)				PGV (g)
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes - Hawth#	55.2	AMA	A	.30	23.00	.198	5.0	.64	11.9	RAN000
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes - Hawth#	55.2	AMA	A	.30	23.00	.157	4.4	.87	10.8	RAN090
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--B	C	.30	30.00	.075	3.7	.78	14.7	SER-UP
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--B	C	.10	30.00	.102	3.4	1.06	15.3	SER000
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--B	C	.10	30.00	.103	4.3	1.26	14.2	SER270
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--B	C	.20	30.00	.192	4.1	1.63	11.5	SOR-UP
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--B	C	.20	30.00	.151	7.1	1.25	16.9	SOR315
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--B	C	.10	30.00	.172	5.7	3.03	14.3	SOR315
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood - Jackson Flat #	68.4	I-A	A	.24	46.00	.087	4.8	.60	25.0	WWJ-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood - Jackson Flat #	68.4	I-A	A	.24	46.00	.114	5.5	.82	25.0	WWJ090
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood - Jackson Flat #	68.4	I-A	A	.24	46.00	.082	3.7	.91	24.6	WWJ180

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M=6-7, D=100-200 km

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0028	Borrego Mtn	1968	0409	0230	6.8	SCE	280	San Onofre - So Cal Edison	124.7	ABB	-	.20	15.00	.167	3.9	1.11	19.3	A-SON-UP
0028	Borrego Mtn	1968	0409	0230	6.8	SCE	280	San Onofre - So Cal Edison	124.7	ABB	-	.10	20.00	.108	3.6	1.52	19.7	A-SON033
0028	Borrego Mtn	1968	0409	0230	6.8	SCE	280	San Onofre - So Cal Edison	124.7	ABB	-	.20	20.00	.103	4.4	1.31	19.1	A-SON303
0030	San Fernando	1971	0209	1400	6.6	ACOE	1035	Isabella Dam (Aux Abut)	113.0	AGA	-	.10	20.00	.020	1.6	1.32	19.5	ISDDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	1035	Isabella Dam (Aux Abut)	113.0	AGA	-	.10	13.00	.017	1.1	.89	21.0	ISD014
0030	San Fernando	1971	0209	1400	6.6	ACOE	1035	Isabella Dam (Aux Abut)	113.0	AGA	-	.10	13.00	.021	1.3	1.03	21.6	ISD284
0030	San Fernando	1971	0209	1400	6.6	CDWR	1041	Maricopa Array #1	115.0	IBB	-	.10	20.00	.017	1.6	1.06	19.1	MA1DWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	1041	Maricopa Array #1	115.0	IBB	-	.10	13.00	.016	1.7	.80	14.9	MA1130
0030	San Fernando	1971	0209	1400	6.6	CDWR	1041	Maricopa Array #1	115.0	IBB	-	.10	20.00	.030	2.1	1.53	17.4	MA1220
0030	San Fernando	1971	0209	1400	6.6	CDWR	1042	Maricopa Array #2	113.0	IBB	-	.20	20.00	.024	1.2	.32	13.6	MA2DWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	1042	Maricopa Array #2	113.0	IBB	-	.10	20.00	.027	1.8	.92	12.9	MA2130
0030	San Fernando	1971	0209	1400	6.6	CDWR	1042	Maricopa Array #2	113.0	IBB	-	.20	15.00	.019	1.1	.43	12.9	MA2220
0030	San Fernando	1971	0209	1400	6.6	CDWR	1043	Maricopa Array #3	113.0	IBB	-	.20	15.00	.024	2.8	3.01	11.1	MA3DWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	1043	Maricopa Array #3	113.0	IBB	-	.20	20.00	.023	1.9	1.16	10.1	MA3130
0030	San Fernando	1971	0209	1400	6.6	CDWR	1043	Maricopa Array #3	113.0	IBB	-	.10	20.00	.021	1.6	1.52	10.5	MA3220
0030	San Fernando	1971	0209	1400	6.6	SCE	280	San Onofre - So Cal Edison	122.0	ABB	-	.10	23.00	.046	1.8	.77	9.2	SONDWN
0030	San Fernando	1971	0209	1400	6.6	SCE	280	San Onofre - So Cal Edison	122.0	ABB	-	.10	20.00	.039	1.6	.78	9.7	SON033
0030	San Fernando	1971	0209	1400	6.6	SCE	280	San Onofre - So Cal Edison	122.0	ABB	-	.20	20.00	.039	1.9	.66	10.0	SON303
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.037	1.9	.62	6.7	CSMDWN
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.064	2.1	.40	6.0	CSM095
0030	San Fernando	1971	0209	1400	6.6	CDWR	111	Cedar Springs, Allen Ranch	86.6	AAA	A	.20	35.00	.044	1.3	.51	6.6	CSM185
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland - San Antonio Dam	58.1	AAA	B	.50	35.00	.137	2.5	.70	8.8	SODDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland - San Antonio Dam	58.1	AAA	B	.50	35.00	.198	3.6	.43	8.5	SOD015
0030	San Fernando	1971	0209	1400	6.6	ACOE	287	Upland - San Antonio Dam	58.1	AAA	B	.50	35.00	.228	4.9	.48	9.1	SOD285
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte - Mel Canyon Rd.	51.6	--	B	.90	30.00	.212	5.1	.33	13.2	MEL-UP
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte - Mel Canyon Rd.	51.6	--	B	.10	30.00	.193	5.6	1.58	13.1	MEL090
0131	Northridge	1994	0117	1231	6.7	USC	90067	Duarte - Mel Canyon Rd.	51.6	--	B	.30	30.00	.080	3.1	.42	11.3	MEL180
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can #	80.0	IGA	A	.30	46.00	.091	4.9	.71	17.7	CUC-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can #	80.0	IGA	A	.30	46.00	.179	4.9	.71	17.3	CUC090
0131	Northridge	1994	0117	1231	6.7	CDMG	23598	Rancho Cucamonga - Deer Can #	80.0	IGA	A	.30	46.00	.121	7.3	.86	17.7	CUC180
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes - Hawth #	55.2	AMA	A	.30	23.00	.216	4.3	.69	9.9	RAN-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes - Hawth #	55.2	AMA	A	.30	23.00	.240	5.9	.67	11.9	RAN000
0131	Northridge	1994	0117	1231	6.7	CDMG	14404	Rancho Palos Verdes - Hawth #	55.2	AMA	A	.30	23.00	.187	5.0	.89	10.8	RAN090
0131	Northridge	1994	0117	1231	6.7	CDMG	13123	Riverside Airport #	101.3	AQB	B	.30	23.00	.110	3.5	.74	9.0	RIV-UP

Date & Time								Closest Dist (km)	Site Codes		Filter Corners							Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.		Station	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0131	Northridge	1994	0117	1231	6.7	CDMG	13123	Riverside Airport #	101.3	AQB	B	.30	23.00	.179	4.4	.36	9.0	RIV180	
0131	Northridge	1994	0117	1231	6.7	CDMG	13123	Riverside Airport #	101.3	AQB	B	.30	23.00	.261	3.9	.55	7.6	RIV270	
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B	C	.30	30.00	.100	4.0	.81	15.0	SER-UP
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B	C	.10	30.00	.123	4.0	1.06	15.0	SER000
0131	Northridge	1994	0117	1231	6.7	USC	90090	Villa Park - Serrano Ave	79.5	--	B	C	.10	30.00	.123	4.8	1.28	13.8	SER270
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B	C	.20	30.00	.263	4.5	1.67	11.5	SOR-UP
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B	C	.20	30.00	.187	7.9	1.27	16.0	SOR225
0131	Northridge	1994	0117	1231	6.7	USC	90071	West Covina - S Orange Ave	54.1	--	B	C	.10	30.00	.208	6.9	3.07	13.6	SOR315
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood - Jackson Flat #	68.4	I-A	A	.24	46.00	.141	5.4	1.05	4.4	WWJ-UP	
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood - Jackson Flat #	68.4	I-A	A	.24	46.00	.159	16.5	.93	3.7	WWJ090	
0131	Northridge	1994	0117	1231	6.7	CDMG	23590	Wrightwood - Jackson Flat #	68.4	I-A	A	.24	46.00	.116	4.8	1.02	4.2	WWJ180	

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M>7, D=0-10 km

Date & Time							Closest		Site Codes		Filter Corners			PGA	PGV	PGD	Dur	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)					
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	3.578	169.6	47.24	6.0	GAZ-UP
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	1.766	67.2	27.24	5.3	GAZ000
0041	Gazli, USSR	1976	0517		6.8		9201	Karakyr	3.0	AAA	-	.50	38.00	1.790	71.3	32.71	7.0	GAZ090
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	32.00	1.189	28.1	11.96	3.7	CLS-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	40.00	1.301	56.1	8.43	3.7	CLS000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	57007	Corralitos	5.1	APB	B	.20	40.00	1.207	52.1	10.20	3.7	CLC090
0122	Loma Prieta	1989	1018	0005	6.9	USCS	16	LGPC	6.1	--A	-	.10	.00	1.626	73.5	33.44	4.5	LGP-UP
0122	Loma Prieta	1989	1018	0005	6.9	USCS	16	LGPC	6.1	--A	-	.10	.00	1.642	110.1	48.24	5.1	LGP000
0122	Loma Prieta	1989	1018	0005	6.9	USCS	16	LGPC	6.1	--A	-	.10	.00	1.645	53.4	13.66	5.5	LGP090
0122	Loma Prieta	1989	1018	0005	6.9	USCS	13	BRAN	10.3	--A	-	.10	.00	1.022	34.4	9.16	7.1	BRN-UP
0122	Loma Prieta	1989	1018	0005	6.9	USCS	13	BRAN	10.3	--A	-	.10	.00	1.296	54.6	8.15	7.2	BRN000
0122	Loma Prieta	1989	1018	0005	6.9	USCS	13	BRAN	10.3	--A	-	.10	.00	1.236	40.2	7.08	8.6	BRN090
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89005	Cape Mendocino #	8.5	IFA	A	.07	23.00	2.143	157.6	104.61	1.7	CPM-UP
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89005	Cape Mendocino #	8.5	IFA	A	.07	23.00	4.721	127.3	30.88	3.1	CPM000
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89005	Cape Mendocino #	8.5	IFA	A	.07	23.00	3.242	85.1	14.88	.6	CPM090
0129	Landers	1992	0628	1158	7.3	SCE	24	Lucerne #	1.1	A-A	A	.00	60.00	2.184	80.7	40.72	9.7	LCN-UP
0129	Landers	1992	0628	1158	7.3	SCE	24	Lucerne #	1.1	A-A	A	.00	60.00	1.844	117.9	71.19	10.0	LCN260
0129	Landers	1992	0628	1158	7.3	SCE	24	Lucerne #	1.1	A-A	A	.00	60.00	2.249	36.9	18.40	10.9	LCN345
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University	.2	--A	A	.20	30.00	1.017	38.1	14.53	3.3	KBU-UP
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University	.2	--A	A	.10	30.00	.596	53.7	14.94	4.1	KBU000
0133	Kobe	1995	0116	2046	6.9	CEOR	99999	Kobe University	.2	--A	A	.10	30.00	.713	36.4	11.92	5.3	KBU090
0133	Kobe	1995	0116	2046	6.9		99999	KJMA	.6	--B	B	.05	.00	1.067	67.9	18.11	5.6	KJM-UP
0133	Kobe	1995	0116	2046	6.9		99999	KJMA	.6	--B	B	.05	.00	1.924	87.3	19.50	6.1	KJM000
0133	Kobe	1995	0116	2046	6.9		99999	KJMA	.6	--B	B	.05	.00	1.559	81.1	19.12	5.7	KJM090
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Izmit	7.7	--A	A	2.00	30.00	.363	24.0	11.55	9.6	IZT-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Izmit	7.7	--A	A	.10	30.00	.401	41.8	14.39	10.1	IZT180
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Izmit	7.7	--A	A	.10	30.00	.349	26.0	10.58	10.1	IZT090
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY080	6.9	---	B	.03	50.00	1.622	98.8	41.93	6.9	CHY080-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY080	6.9	---	B	.05	50.00	2.113	121.3	34.68	7.1	CHY080-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY080	6.9	---	B	.10	50.00	2.752	125.4	23.04	7.9	CHY080-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU087	3.1	--1	b	.02	30.00	.226	116.5	95.34	17.6	TCU087-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU087	3.1	--1	b	.05	30.00	.209	42.2	29.50	31.8	TCU087-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU087	3.1	--1	b	.02	30.00	.248	36.6	30.87	33.9	TCU087-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU089	8.2	--1	b	.03	50.00	.431	41.4	23.19	23.9	TCU089-V

Date & Time								Closest	Site Codes		Filter Corners							
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU089	8.2	--1	b	.04	50.00	.440	29.8	17.94	22.5	TCU089-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU089	8.2	--1	b	.07	50.00	.660	36.8	18.47	21.6	TCU089-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU120	8.1	--1	B	.03	50.00	.403	74.2	44.57	22.1	TCU120-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU120	8.1	--1	B	.03	50.00	.379	44.1	32.94	24.2	TCU120-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU120	8.1	--1	B	.02	50.00	.480	61.2	32.60	23.9	TCU120-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	40.00	.265	103.8	80.72	25.1	TCU128-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.05	30.00	.305	81.2	52.89	29.9	TCU128-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	30.00	.266	63.4	61.33	35.7	TCU128-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU136	8.9	---	B	.03	40.00	.262	65.6	48.69	22.9	TCU136-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU136	8.9	---	B	.03	50.00	.284	54.7	46.26	22.1	TCU136-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU136	8.9	---	B	.03	50.00	.302	38.5	42.42	22.9	TCU136-N

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M>7, D=10-50 km

Date & Time																	
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	Filter Corners HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0046	Tabas, Iran	1978	0916		7.4		9102	Dayhook	17.0	ABB -	.10	.00	.538	21.7	9.75	8.3	DAY-UP
0046	Tabas, Iran	1978	0916		7.4		9102	Dayhook	17.0	ABB -	.10	.00	.993	19.9	6.93	8.8	DAY-LN
0046	Tabas, Iran	1978	0916		7.4		9102	Dayhook	17.0	ABB -	.10	.00	.947	32.1	9.75	9.7	DAY-TR
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89530	Shelter Cove Airport #	33.8	IFB B	.50	23.00	.182	3.9	.33	15.2	SHL-UP
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89530	Shelter Cove Airport #	33.8	IFB B	.50	23.00	.648	8.9	.44	14.4	SHL000
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89530	Shelter Cove Airport #	33.8	IFB B	.50	23.00	.585	9.2	.63	14.6	SHL090
0129	Landers	1992	0628	1158	7.3	CDMG	22161	Twentynine Palms #	42.2	AGA A	.12	23.00	.125	4.8	4.26	21.3	29P-UP
0129	Landers	1992	0628	1158	7.3	CDMG	22161	Twentynine Palms #	42.2	AGA A	.12	23.00	.207	5.4	2.67	20.4	29P000
0129	Landers	1992	0628	1158	7.3	CDMG	22161	Twentynine Palms #	42.2	AGA A	.12	23.00	.180	4.6	4.38	20.2	29P090
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Arcelik	17.0	--B B	1.50	80.00	.174	11.2	1.67	11.4	ARCDWN
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Arcelik	17.0	--B B	.80	70.00	.298	23.7	4.23	10.4	ARC000
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Arcelik	17.0	--B B	.90	70.00	.209	14.8	3.77	9.1	ARC090
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Gebze	17.0	--A A	1.00	40.00	.405	11.3	1.01	5.9	GBZ-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Gebze	17.0	--A A	.06	25.00	.454	19.0	37.50	7.3	GBZ000
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Gebze	17.0	--A A	.08	30.00	.340	35.2	26.63	6.4	GBZ270
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Goyunuk	35.5	--B -	.10	30.00	.247	20.7	5.64	8.1	GYN-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Goyunuk	35.5	--B -	.15	30.00	.313	10.7	3.01	8.3	GYN000
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Goyunuk	35.5	--B -	.10	25.00	.278	13.0	4.72	8.2	GYN090
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Iznik	29.7	--D C	.30	30.00	.219	14.9	3.54	9.3	IZN-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Iznik	29.7	--D C	.15	25.00	.239	33.5	14.42	14.5	IZN180
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Iznik	29.7	--D C	.07	25.00	.175	22.3	8.59	13.8	IZN090
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA056	48.7	--- A	.02	50.00	.120	11.4	8.20	15.6	HWA056-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA056	48.7	--- A	.03	50.00	.203	9.6	5.74	12.3	HWA056-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA056	48.7	--- A	.02	50.00	.207	6.9	5.94	14.0	HWA056-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU015	47.3	--1 B	.02	50.00	.135	27.1	24.34	31.6	TCU015-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU015	47.3	--1 B	.03	50.00	.218	28.3	22.42	22.4	TCU015-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU015	47.3	--1 B	.02	50.00	.185	40.4	41.66	26.7	TCU015-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU046	14.3	--1 A	.03	30.00	.240	67.4	57.28	24.4	TCU046-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU046	14.3	--1 A	.06	30.00	.224	32.9	20.62	25.0	TCU046-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU046	14.3	--1 A	.03	30.00	.336	33.3	38.09	18.8	TCU046-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU047	33.0	--- B	.02	50.00	.566	47.7	24.42	16.3	TCU047-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU047	33.0	--- B	.03	50.00	1.168	32.5	19.83	10.8	TCU047-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU047	33.0	--- B	.02	50.00	.700	58.9	29.69	12.9	TCU047-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU095	43.4	--1 B	.02	50.00	.463	49.3	37.53	16.2	TCU095-V

Date & Time							Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename	
No.	Earthquake	YR	MODY	HRMN	Mag	Own			No.	Geom	USGS	HP (hz)	LP (hz)					PGA (g)
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU095	43.4	--1	B	.04	50.00	1.700	57.1	20.85	14.7	TCU095-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU095	43.4	--1	B	.02	50.00	.782	42.4	40.06	14.0	TCU095-W
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Bolu	16.0	--D	C	.05	.00	.470	31.5	19.34	6.5	BOL-UP
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Bolu	16.0	--D	C	.05	.00	1.645	69.7	17.73	4.5	BOL000
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Bolu	16.0	--D	C	.05	.00	1.765	72.8	15.32	6.4	BOL090
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Mudurnu	34.6	--A	-	.08	.00	.132	19.7	13.62	11.9	MDR-UP
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Mudurnu	34.6	--A	-	.08	.00	.201	9.9	8.56	15.5	MDR000
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Mudurnu	34.6	--A	-	.08	.00	.123	17.2	14.98	13.8	MDR090
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Sakarya	42.7	--B	B	.05	40.00	.025	5.3	6.09	18.9	SKR-UP
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Sakarya	42.7	--B	B	.05	40.00	.055	5.5	4.76	17.4	SKR180
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Sakarya	42.7	--B	B	.05	40.00	.037	5.7	5.90	16.4	SKR090

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M>7, D=50-100 km

Date & Time							Closest Site Codes Filter Corners												
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
0049	Tabas, Iran	1978	0916		7.4		71	Ferdows	94.4	--	A	—	.04		.189	11.7	9.82	21.2	FER-V1
0049	Tabas, Iran	1978	0916		7.4		71	Ferdows	94.4	--	A	—	.02	20.00	.277	6.7	3.06	19.3	FER-L1
0049	Tabas, Iran	1978	0916		7.4		71	Ferdows	94.4	--	A	—	.04	20.00	.358	9.7	6.32	23.2	FER-T1
0129	Landers	1992	0628	1158	7.3	CDMG	21081	Amboy #	69.2	AAB	A	.10	23.00	.315	18.7	5.90	21.7	ABY-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	21081	Amboy #	69.2	AAB	A	.10	23.00	.370	19.3	9.79	18.0	ABY000	
0129	Landers	1992	0628	1158	7.3	CDMG	21081	Amboy #	69.2	AAB	A	.10	23.00	.434	22.3	9.22	19.6	ABY090	
0129	Landers	1992	0628	1158	7.3	CDMG	12168	Puerta La Cruz #	95.9	AQB	B	.30	23.00	.173	3.1	.84	26.9	PLC-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12168	Puerta La Cruz #	95.9	AQB	B	.30	23.00	.160	2.1	.49	27.4	PLC000	
0129	Landers	1992	0628	1158	7.3	CDMG	12168	Puerta La Cruz #	95.9	AQB	B	.30	23.00	.163	2.5	.58	26.8	PLC090	
0129	Landers	1992	0628	1158	7.3	CDMG	13123	Riverside Airport #	96.1	AQB	B	.16	23.00	.157	3.0	1.57	22.6	RIV-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	13123	Riverside Airport #	96.1	AQB	B	.16	23.00	.133	4.2	1.75	19.8	RIV180	
0129	Landers	1992	0628	1158	7.3	CDMG	13123	Riverside Airport #	96.1	AQB	B	.16	23.00	.151	4.6	1.48	18.0	RIV270	
0129	Landers	1992	0628	1158	7.3	CDMG	12206	Silent Valley - Poppet Flat #	51.7	IGA	A	.12	23.00	.134	5.0	3.01	19.2	SIL-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12206	Silent Valley - Poppet Flat #	51.7	IGA	A	.12	23.00	.153	4.5	2.47	18.8	SIL000	
0129	Landers	1992	0628	1158	7.3	CDMG	12206	Silent Valley - Poppet Flat #	51.7	IGA	A	.12	23.00	.138	5.2	4.04	19.9	SIL090	
0141	Kocaeli, Turkey	1999	0817		7.4	ITU	99999	Mecidiyekoy	62.3	--	B	B	1.10	60.00	.084	2.4	.26	14.8	MCD-V
0141	Kocaeli, Turkey	1999	0817		7.4	ITU	99999	Mecidiyekoy	62.3	--	B	B	.20	50.00	.129	5.0	1.79	14.2	MCD000
0141	Kocaeli, Turkey	1999	0817		7.4	ITU	99999	Mecidiyekoy	62.3	--	B	B	.05	60.00	.132	8.9	8.15	15.6	MCD090
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	NSK	64.5	--	1	A	.20	50.00	.081	8.3	2.52	14.2	NSK-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	NSK	64.5	--	1	A	.02	30.00	.126	8.3	1.90	14.4	NSK-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	NSK	64.5	--	1	A	.20	33.00	.118	5.7	1.37	14.4	NSK-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP035	96.8	--	1	A	.02	24.00	.072	10.9	12.31	34.3	TAP035-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP035	96.8	--	1	A	.02	24.00	.218	9.8	5.19	33.9	TAP035-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP035	96.8	--	1	A	.02	24.00	.115	9.2	5.53	36.8	TAP035-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP036	95.6	--	1	A	.02	30.00	.049	10.0	11.13	23.5	TAP036-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP036	95.6	--	1	A		30.00	.072	6.5	5.41	19.5	TAP036-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP036	95.6	--	1	A	.02	20.00	.048	5.7	5.84	20.4	TAP036-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU025	54.3	----		A	.05	50.00	.086	23.5	21.45	15.2	TCU025-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU025	54.3	----		A	.05	50.00	.118	9.7	6.71	15.3	TCU025-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU025	54.3	----		A	.03	50.00	.143	14.2	13.37	14.7	TCU025-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA031	94.7	--	1	A		50.00	.073	7.8	8.46	29.9	ILA031-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA031	94.7	--	1	A		30.00	.154	6.5	4.61	25.6	ILA031-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA031	94.7	--	1	A		50.00	.115	6.3	5.16	20.5	ILA031-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA051	90.3	----		A	.02	24.00	.059	11.0	12.40	36.0	ILA051-V

Date & Time							No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)					
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA051	90.3	----	A	.02	22.00	.064	7.4	5.12	38.3	ILA051-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA051	90.3	----	A	.02	22.00	.151	14.1	7.98	39.6	ILA051-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA063	71.6	----	A	.04	50.00	.122	11.2	11.31	15.6	ILA063-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA063	71.6	----	A	.02	50.00	.221	9.3	7.43	15.3	ILA063-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA063	71.6	----	A	.02	50.00	.226	10.5	6.52	15.9	ILA063-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA023	57.0	--2	A	.03	50.00	.076	9.7	8.31	18.0	HWA023-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA023	57.0	--2	A	.04	40.00	.072	8.9	5.40	22.6	HWA023-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA023	57.0	--2	A	.04	40.00	.073	6.1	4.19	22.7	HWA023-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA026	58.8	----	A	.02	50.00	.110	9.1	6.98	26.2	HWA026-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA026	58.8	----	A	.03	50.00	.135	8.2	5.00	15.0	HWA026-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA026	58.8	----	A	.02	50.00	.202	7.4	4.75	17.0	HWA026-W

NRC TIME HISTORY LIBRARY: CEUS, ROCK, M>7, D=100-200 km

Date & Time							Closest		Site Codes		Filter Corners				Dur	Filename		
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)			PGV (g)	PGD (cm/s)
0046	Tabas, Iran	1978	0916		7.4		72	Kashmar	199.1	--B	-	.05	20.00	.120	12.1	7.94	17.5	KSH-V1
0046	Tabas, Iran	1978	0916		7.4		72	Kashmar	199.1	--B	-	.03	20.00	.144	10.4	7.01	17.6	KSH-L1
0046	Tabas, Iran	1978	0916		7.4		72	Kashmar	199.1	--B	-	.02	20.00	.135	10.4	6.11	16.5	KSH-T1
0129	Landers	1992	0628	1158	7.3	USC	90052	Calabasas - N Las Virg #	194.1	--B	B	.50	25.00	.065	3.0	.62	27.9	VIR-UP
0129	Landers	1992	0628	1158	7.3	USC	90052	Calabasas - N Las Virg #	194.1	--B	B	.28	25.00	.062	3.3	1.13	27.7	VIR200
0129	Landers	1992	0628	1158	7.3	USC	90052	Calabasas - N Las Virg #	194.1	--B	B	.20	22.00	.038	3.1	1.10	25.1	VIR290
0129	Landers	1992	0628	1158	7.3	USC	90067	Duarte - Mel Canyon Rd #	126.4	--B	B	.28	25.00	.084	7.7	2.54	17.5	MEL-UP
0129	Landers	1992	0628	1158	7.3	USC	90067	Duarte - Mel Canyon Rd #	126.4	--B	B	.28	25.00	.091	4.5	1.37	17.0	MEL090
0129	Landers	1992	0628	1158	7.3	USC	90067	Duarte - Mel Canyon Rd #	126.4	--B	B	.30	25.00	.062	3.9	1.40	18.2	MEL180
0129	Landers	1992	0628	1158	7.3	USC	90019	San Gabriel - E Grand Ave	141.6	--A	A	.16	22.00	.100	11.7	6.66	25.7	GRN-UP
0129	Landers	1992	0628	1158	7.3	USC	90019	San Gabriel - E Grand Ave	141.6	--A	A	.07	25.00	.145	13.4	14.21	26.4	GRN180
0129	Landers	1992	0628	1158	7.3	USC	90019	San Gabriel - E Grand Ave	141.6	--A	A	.13	25.00	.123	10.6	6.41	27.0	GRN270
0129	Landers	1992	0628	1158	7.3	USC	90008	Sun Valley - Sunland #	162.6	--B	B	1.00	25.00	.067	2.0	.18	23.8	SUL-UP
0129	Landers	1992	0628	1158	7.3	USC	90008	Sun Valley - Sunland #	162.6	--B	B	.33	25.00	.094	3.7	.79	26.0	SUL230
0129	Landers	1992	0628	1158	7.3	USC	90008	Sun Valley - Sunland #	162.6	--B	B	.45	25.00	.076	3.9	.66	25.4	SUL320
0129	Landers	1992	0628	1158	7.3	USC	90090	Villa Park - Serrano Ave #	131.4	--B	B	.20	25.00	.103	6.3	1.71	29.8	SER-UP
0129	Landers	1992	0628	1158	7.3	USC	90090	Villa Park - Serrano Ave #	131.4	--B	B	.11	25.00	.095	8.6	6.85	31.7	SER000
0129	Landers	1992	0628	1158	7.3	USC	90090	Villa Park - Serrano Ave #	131.4	--B	B	.18	25.00	.121	8.9	3.32	26.7	SER270
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	PNG	114.2	--1	A	.40	30.00	.047	2.4	.39	32.4	PNG-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	PNG	114.2	--1	A	.24	40.00	.112	2.6	.59	29.9	PNG-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	PNG	114.2	--1	A	.22	30.00	.110	3.5	.86	31.1	PNG-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	KAU078	102.8	--1	A	.03	50.00	.046	4.0	3.45	32.1	KAU078-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	KAU078	102.8	--1	A	.02	50.00	.066	2.2	1.54	30.3	KAU078-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	KAU078	102.8	--1	A	.02	50.00	.114	3.7	1.05	25.4	KAU078-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP059	125.9	--1	A	.02	20.00	.053	9.6	8.61	35.6	TAP059-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP059	125.9	--1	A	.02	30.00	.094	6.1	4.23	37.4	TAP059-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP059	125.9	--1	A		15.00	.069	9.1	4.92	32.0	TAP059W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP060	128.4	--1	A	.02	24.00	.040	8.1	6.83	39.7	TAP060-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP060	128.4	--1	A	.02	20.00	.091	8.8	4.32	37.7	TAP060-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP060	128.4	--1	A		20.00	.076	12.1	4.47	37.0	TAP060-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP067	104.2	--1	A	.03	20.00	.114	13.9	12.64	40.8	TAP067-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP067	104.2	--1	A	.02	20.00	.091	11.0	5.63	39.3	TAP067-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP067	104.2	--1	A	.02	20.00	.089	12.0	7.39	38.2	TAP067-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP069	135.3	--1	A	.04	20.00	.063	5.8	4.25	37.8	TAP069-V

Date & Time								Closest Dist (km)	Site Codes		Filter Corners							Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.		Station	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP069		135.3	-- 1	A	.05	20.00	.072	5.5	3.60	35.6	TAP069-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP069		135.3	-- 1	A	.04	20.00	.063	5.8	4.25	35.6	TAP069-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP072		110.0	---	A	.03	30.00	.081	10.5	10.90	28.7	TAP072-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP072		110.0	---	A	.04	30.00	.163	11.7	5.02	21.9	TAP072-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP072		110.0	---	A	.03	50.00	.067	10.3	5.40	23.0	TAP072-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP075		118.4	---	A	.03	30.00	.110	10.8	9.85	28.2	TAP075-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP075		118.4	---	A	.02	50.00	.171	11.1	4.74	24.9	TAP075-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP075		118.4	---	A	.01	30.00	.205	11.4	5.38	24.9	TAP075-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP078		131.0	---	A	.03	33.00	.063	8.6	8.30	30.5	TAP078-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP078		131.0	---	A	.04	40.00	.088	13.0	5.55	25.8	TAP078-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP078		131.0	---	A	.02	40.00	.094	10.7	4.98	30.1	TAP078-W

TABLE B-4: CEUS, SOIL
NRC TIME HISTORY LIBRARY: CEUS, SOIL, M=4.5-6, D=0-50 km

No.	Earthquake	Date & Time				Mag	Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN							Geom	USGS	HP (hz)	LP (hz)					
0026	Northern Calif.	1967	1210	1206	5.6	USGS		1023	Ferndale City Hall	30.8	BQD	C	.40	12.00	.061	5.5	.59	7.0	C-FRN-UP
0026	Northern Calif.	1967	1210	1206	5.6	USGS		1023	Ferndale City Hall	30.8	BQD	C	.30	20.00	.611	13.4	1.17	1.1	C-FRN224
0026	Northern Calif.	1967	1210	1206	5.6	USGS		1023	Ferndale City Hall	30.8	BQD	C	.20	13.00	.250	14.3	1.41	3.6	C-FRN314
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG		54099	Convict Creek	17.4	AQD	-	.20	40.00	.544	14.5	2.37	2.7	A-CVK-UP
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG		54099	Convict Creek	17.4	AQD	-	.08	30.00	.365	24.0	3.50	2.8	A-CVK090
0058	Mammoth Lakes	1980	0525	1944	6.0	CDMG		54099	Convict Creek	17.4	AQD	-	.08	35.00	.454	17.8	2.54	3.4	A-CVK180
0074	Mammoth Lakes	1983	0107	0138	5.2	CDMG		54099	Convict Creek	9.5	AQD	-	.20	40.00	.201	15.6	1.91	3.1	F-CVK-UP
0074	Mammoth Lakes	1983	0107	0138	5.2	CDMG		54099	Convict Creek	9.5	AQD	-	.15	30.00	.281	19.3	2.18	1.8	F-CVK090
0074	Mammoth Lakes	1983	0107	0138	5.2	CDMG		54099	Convict Creek	9.5	AQD	-	.15	30.00	.280	22.9	3.22	1.3	F-CVK180
0077	Coalinga	1983	0509	0249	5.0	USGS		1606	Burnett Construction	17.7	AHD	-	.40	30.00	.202	4.3	.21	2.6	A-BNT-UP
0077	Coalinga	1983	0509	0249	5.0	USGS		1606	Burnett Construction	17.7	AHD	-	.50	30.00	.183	5.4	.41	3.0	A-BNT270
0077	Coalinga	1983	0509	0249	5.0	USGS		1606	Burnett Construction	17.7	AHD	-	.40	25.00	.178	6.8	.42	3.2	A-BNT360
0079	Coalinga	1983	0709	0740	5.2	CDMG		46T04	CHP (temp)	14.9	AHD	-	.45	30.00	.195	4.3	.31	3.4	C-CHP-UP
0079	Coalinga	1983	0709	0740	5.2	CDMG		46T04	CHP (temp)	14.9	AHD	-	.30	25.00	.382	12.1	.68	1.8	C-CHP000
0079	Coalinga	1983	0709	0740	5.2	CDMG		46T04	CHP (temp)	14.9	AHD	-	.30	25.00	.369	8.7	.33	2.1	C-CHP090
0103	N. Palm Springs	1986	0708	0920	6.0	USGS		5073	Cabazon	16.3	AHD	-	.20	45.00	.982	13.5	1.18	2.2	CAB-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS		5073	Cabazon	16.3	AHD	-	.15	40.00	.494	9.7	1.74	2.7	CAB180
0103	N. Palm Springs	1986	0708	0920	6.0	USGS		5073	Cabazon	16.3	AHD	-	.15	40.00	.405	18.6	2.65	1.6	CAB270
0103	N. Palm Springs	1986	0708	0920	6.0	USGS		5072	Whitewater Trout Farm	7.3	AHC	A	.50	40.00	1.252	25.4	1.53	2.3	WWT-UP
0103	N. Palm Springs	1986	0708	0920	6.0	USGS		5072	Whitewater Trout Farm	7.3	AHC	A	.10	40.00	.882	45.3	5.30	1.7	WWT180
0103	N. Palm Springs	1986	0708	0920	6.0	USGS		5072	Whitewater Trout Farm	7.3	AHC	A	.15	45.00	1.217	44.3	3.97	2.0	WWT270
0106	Chalfant Valley	1986	0721	1451	5.6	CDMG		54428	Zack Brothers Ranch	20.0	AAD	-	.20	40.00	.216	4.3	.22	3.3	C-ZAK-UP
0106	Chalfant Valley	1986	0721	1451	5.6	CDMG		54428	Zack Brothers Ranch	20.0	AAD	-	.13	35.00	.338	12.0	.80	2.3	C-ZAK270
0106	Chalfant Valley	1986	0721	1451	5.6	CDMG		54428	Zack Brothers Ranch	20.0	AAD	-	.30	30.00	.243	7.8	.57	3.9	C-ZAK360
0117	Whittier Narrows	1987	1001	1442	6.0	USGS		951	Brea Dam (Downstream)	23.3	IPD	-	.50	40.00	.249	6.4	.37	5.4	A-BRD-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USGS		951	Brea Dam (Downstream)	23.3	IPD	-	.60	35.00	.343	10.0	.43	3.3	A-BRD040
0117	Whittier Narrows	1987	1001	1442	6.0	USGS		951	Brea Dam (Downstream)	23.3	IPD	-	.60	40.00	.590	24.1	1.17	3.2	A-BRD130
0117	Whittier Narrows	1987	1001	1442	6.0	USC		90078	Compton - Castlegate St #	16.9	--D	C	.50	25.00	.446	7.2	.26	3.1	A-CAS-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC		90078	Compton - Castlegate St #	16.9	--D	C	.09	25.00	.635	32.0	4.70	2.4	A-CAS000
0117	Whittier Narrows	1987	1001	1442	6.0	USC		90078	Compton - Castlegate St #	16.9	--D	C	.28	25.00	.718	19.0	1.85	2.6	A-CAS270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG		14196	Inglewood - Union Oil	25.2	IQD	B	.50	30.00	.197	5.1	.39	5.3	A-ING-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG		14196	Inglewood - Union Oil	25.2	IQD	B	.60	40.00	.597	13.6	.92	2.1	A-ING000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG		14196	Inglewood - Union Oil	25.2	IQD	B	.25	40.00	.517	25.9	2.48	1.8	A-ING090

Date & Time								Closest	Site Codes		Filter Corners							
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90072	La Puente - Ringrove Av #	11.9	--D	C	.45	25.00	.197	5.2	.24	3.9	A-RIM-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90072	La Puente - Ringrove Av #	11.9	--D	C	.18	25.00	.336	8.1	1.09	4.5	A-RIM015
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90072	La Puente - Ringrove Av #	11.9	--D	C	.50	21.00	.271	8.9	.46	2.5	A-RIM105
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80047	Pasadena - CIT Calif Blvd	15.5	AQD	-	.30	40.00	.468	12.2	.93	2.8	A-CCB-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80047	Pasadena - CIT Calif Blvd	15.5	AQD	-	.30	40.00	.303	11.7	1.21	3.3	A-CCB270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80047	Pasadena - CIT Calif Blvd	15.5	AQD	-	.30	35.00	.477	20.6	3.05	2.9	A-CCB360
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80049	Pasadena - CIT Keck Lab	15.5	-QD	-	.60	60.00	.230	7.6	.60	4.0	A-KEC-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80049	Pasadena - CIT Keck Lab	15.5	-QD	-	.40	35.00	.294	7.2	.80	3.4	A-KEC270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	80049	Pasadena - CIT Keck Lab	15.5	-QD	-	.25	35.00	.345	19.2	2.63	2.7	A-KEC360
0052	New Madrid, MO	1989	0427	1647	4.7		0	Ridgely, Tennessee	39.9	IDD	-	.50	70.00	.110	.1	.00	12.0	RDG-UP
0052	New Madrid, MO	1989	0427	1647	4.7		0	Ridgely, Tennessee	39.9	IDD	-	.40	60.00	.007	.2	.01	15.0	RDG007
0052	New Madrid, MO	1989	0427	1647	4.7		0	Ridgely, Tennessee	39.9	IDD	-	.30	60.00	.009	.2	.02	13.0	RDG097

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M=4.5-6, D=50-100 km

B-65

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0005	Northwest Calif	1938	0912	0610	5.5	USGS	1023	Ferndale City Hall	55.0	BQD	C	.30	15.00	.074	2.9	.18	5.9	A-FRNDWN
0005	Northwest Calif	1938	0912	0610	5.5	USGS	1023	Ferndale City Hall	55.0	BQD	C	.50	11.00	.329	13.2	.66	3.4	A-FRN045
0005	Northwest Calif	1938	0912	0610	5.5	USGS	1023	Ferndale City Hall	55.0	BQD	C	.20	11.00	.236	7.8	.90	3.2	A-FRN135
0011	Northwest Calif	1951	1008	0411	5.8	USGS	1023	Ferndale City Hall	56.0	BQD	C	.40	20.00	.084	3.3	.28	6.5	B-FRN-UP
0011	Northwest Calif	1951	1008	0411	5.8	USGS	1023	Ferndale City Hall	56.0	BQD	C	.50	12.00	.233	9.5	.59	3.5	B-FRN224
0011	Northwest Calif	1951	1008	0411	5.8	USGS	1023	Ferndale City Hall	56.0	BQD	C	.50	12.00	.234	9.7	1.05	3.8	B-FRN314
0029	Lytle Creek	1970	0912	1430	5.4	CDMG	125	Lake Hughes #1	93.5	APC	B	1.10	15.00	.016	.5	.03	3.0	L01DWN
0029	Lytle Creek	1970	0912	1430	5.4	CDMG	125	Lake Hughes #1	93.5	APC	B	.80	10.00	.026	1.1	.09	2.9	L01021
0029	Lytle Creek	1970	0912	1430	5.4	CDMG	125	Lake Hughes #1	93.5	APC	B	.35	20.00	.022	.9	.12	3.5	L01291
0029	Lytle Creek	1970	0912	1430	5.4	USGS	135	LA - Hollywood Stor FF	76.0	IPD	C	.90	20.00	.018	.5	.03	5.9	HOL-UP
0029	Lytle Creek	1970	0912	1430	5.4	USGS	135	LA - Hollywood Stor FF	76.0	IPD	C	.30	20.00	.050	1.8	.13	4.9	HOL090
0029	Lytle Creek	1970	0912	1430	5.4	USGS	135	LA - Hollywood Stor FF	76.0	IPD	C	.40	20.00	.049	1.3	.07	4.1	HOL180
0051	Imperial Valley	1979	1015	2319	5.2	UNAMUCSD	6605	Delta	52.1	IQD	C	1.00	25.00	.058	1.2	.06	7.3	A-DLTDWN
0051	Imperial Valley	1979	1015	2319	5.2	UNAMUCSD	6605	Delta	52.1	IQD	C	.80	25.00	.183	4.5	.27	3.7	A-DLT262
0051	Imperial Valley	1979	1015	2319	5.2	UNAMUCSD	6605	Delta	52.1	IQD	C	.40	25.00	.264	10.5	.75	2.2	A-DLT352
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, E Ground	67.6	APC	B	.30	30.00	.069	2.7	.26	8.8	RDE-UP
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, E Ground	67.6	APC	B	.15	30.00	.571	18.2	.78	3.3	RDE000
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, E Ground	67.6	APC	B	.30	30.00	.354	11.8	.82	6.0	RDE270
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, W Ground	67.6	APC	B	.50	40.00	.081	2.5	.22	8.4	RDW-UP
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, W Ground	67.6	APC	B	.40	40.00	.409	10.4	.69	5.6	RDW000
0084	Trinidad offshore	1983	0824	1336	5.5	CDMG	1498	Rio Dell Overpass, W Ground	67.6	APC	B	.20	35.00	.375	9.3	.62	5.8	RDW270
0103	N. Palm Springs	1986	0708	0920	6.0	CDOT	754	Colton Interchange - Vault	57.4	BHD	-	.40	30.00	.043	1.9	.40	9.9	CLI-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDOT	754	Colton Interchange - Vault	57.4	BHD	-	.40	30.00	.093	5.2	.54	8.8	CLI082
0103	N. Palm Springs	1986	0708	0920	6.0	CDOT	754	Colton Interchange - Vault	57.4	BHD	-	.40	30.00	.119	7.0	.63	9.0	CLI352
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	40.00	.134	4.7	.27	5.4	LDR-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.197	7.6	.57	5.1	LDR000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.295	7.2	.63	4.4	LDR090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90065	Glendora - N Oakbank #	69.7	--D	B	.38	25.00	.212	5.2	.45	5.0	A-OAK-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90065	Glendora - N Oakbank #	69.7	--D	B	.35	25.00	.289	5.4	.68	4.1	A-OAK080
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90065	Glendora - N Oakbank #	69.7	--D	B	.23	25.00	.342	7.7	.82	3.6	A-OAK170
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24526	Lancaster - Med Off FF	69.5	IQC	-	1.30	35.00	.080	1.9	.05	8.2	A-LMD-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24526	Lancaster - Med Off FF	69.5	IQC	-	.80	25.00	.150	5.0	.26	7.9	A-LMD010
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24526	Lancaster - Med Off FF	69.5	IQC	-	.60	25.00	.193	4.5	.26	10.2	A-LMD100
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24309	Leona Valley #6	64.8	IHD	C	1.00	25.00	.054	1.6	.12	7.8	A-LV6-UP

Date & Time									Closest	Site Codes		Filter Corners			PGV	PGD	Dur	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	(g)	(cm/s)	(s)	
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24309	Leona Valley #6	64.8	IHD	C	1.00	25.00	.109	3.0	.15	6.8	A-LV6000
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24309	Leona Valley #6	64.8	IHD	C	.80	25.00	.134	3.8	.18	7.5	A-LV6090
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24279	Newhall - Fire Sta	55.2	AQD	C	1.00	25.00	.077	1.7	.12	9.1	A-NWH-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24279	Newhall - Fire Sta	55.2	AQD	C	.50	15.00	.104	4.5	.41	9.0	A-NWH180
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	24279	Newhall - Fire Sta	55.2	AQD	C	.60	15.00	.146	4.3	.54	6.5	A-NWH270
0049	Saguenay	1988	1125	2346	5.9		7	GSC Site 7 - Baie-St-Paul, Que	95.6	CBC	-	.40		.122	2.6	.28	19.1	1125S07V
0049	Saguenay	1988	1125	2346	5.9		7	GSC Site 7 - Baie-St-Paul, Que	95.6	CBC	-	.30	40.00	.122	4.7	.51	17.2	1125S07L
0049	Saguenay	1988	1125	2346	5.9		7	GSC Site 7 - Baie-St-Paul, Que	95.6	CBC	-	.10	30.00	.173	5.7	.66	16.0	1125S07T
0052	New Madrid, MO	1989	0427	1647	4.7		0	Hornbeak, TN	56.7	IDD	-	.40	70.00	.003	.6	.00	15.9	HRN-UP
0052	New Madrid, MO	1989	0427	1647	4.7		0	Hornbeak, TN	56.7	IDD	-	.40	60.00	.005	.8	.01	12.8	HRN000
0052	New Madrid, MO	1989	0427	1647	4.7		0	Hornbeak, TN	56.7	IDD	-	.40	60.00	.005	1.0	.01	15.0	HRN090

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M=6-7, D=0-10 km

Date & Time							Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)			
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5054	Bonds Corner	2.5	AQD C	.10	40.00	1.055	18.3	4.23	4.7	H-BCR-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5054	Bonds Corner	2.5	AQD C	.10	40.00	.745	59.6	12.09	4.9	H-BCR140	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5054	Bonds Corner	2.5	AQD C	.10	40.00	1.120	56.9	12.59	4.1	H-BCR230	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5060	Brawley Airport	8.5	AQD C	.10	40.00	.347	14.2	3.92	5.2	H-BRA-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5060	Brawley Airport	8.5	AQD C	.10	40.00	.223	35.5	17.93	5.2	H-BRA225	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5060	Brawley Airport	8.5	AQD C	.10	40.00	.398	34.1	11.74	2.7	H-BRA315	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	5154	EC County Center FF	7.6	IDD C	.10	50.00	.531	21.7	9.22	3.8	H-ECC-UP	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	5154	EC County Center FF	7.6	IDD C	.10	40.00	.312	49.5	12.99	3.9	H-ECC002	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	5154	EC County Center FF	7.6	IDD C	.10	35.00	.386	57.8	31.89	5.0	H-ECC092	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5057	El Centro Array #3	9.3	AQD D	.10	40.00	.306	10.6	6.75	6.1	H-E03-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5057	El Centro Array #3	9.3	AQD D	.10	40.00	.419	44.0	17.37	4.7	H-E03140	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5057	El Centro Array #3	9.3	AQD D	.10	40.00	.314	34.9	20.27	5.3	H-E03230	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	952	El Centro Array #5	1.0	IQD C	.10	40.00	1.370	40.0	14.91	2.4	H-E05-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	952	El Centro Array #5	1.0	IQD C	.10	40.00	.804	52.3	26.67	4.0	H-E05140	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	952	El Centro Array #5	1.0	IQD C	.10	40.00	.542	106.6	52.23	3.8	H-E-5230	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	942	El Centro Array #6	1.0	IQD C	.20	40.00	3.990	128.3	21.73	1.7	H-E06-UP	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	942	El Centro Array #6	1.0	IQD C	.10	40.00	.635	65.8	32.84	5.2	H-E06140	
0050	Imperial Valley	1979	1015	2316	6.5	CDMG	942	El Centro Array #6	1.0	IQD C	.10	40.00	.580	93.5	56.78	4.8	H-E06230	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5165	El Centro Differential Array	5.3	IQD C	.10	40.00	1.630	29.4	15.66	3.1	H-EDA-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5165	El Centro Differential Array	5.3	IQD C	.10	40.00	.581	54.7	35.73	3.8	H-EDA270	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5165	El Centro Differential Array	5.3	IQD C	.10	40.00	.621	59.7	20.49	4.5	H-EDA360	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5055	Holtville Post Office	7.5	AQD C	.10	40.00	.530	14.4	6.93	5.3	H-HVP-UP	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5055	Holtville Post Office	7.5	AQD C	.10	40.00	.367	53.0	24.34	5.1	H-HVP225	
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5055	Holtville Post Office	7.5	AQD C	.10	40.00	.368	42.1	24.61	4.7	H-HVP315	
0056	Mammoth Lakes	1980	0525	1634	6.3	CDMG	54099	Convict Creek	9.0	AQD -	.20	41.00	.933	31.6	6.62	5.7	I-CVK-UP	
0056	Mammoth Lakes	1980	0525	1634	6.3	CDMG	54099	Convict Creek	9.0	AQD -	.10	60.00	.586	27.1	5.99	6.6	I-CVK090	
0056	Mammoth Lakes	1980	0525	1634	6.3	CDMG	54099	Convict Creek	9.0	AQD -	.10	50.00	.675	24.6	7.59	7.2	I-CVK180	
0076	Coalinga	1983	0502	2342	6.4	USBR	1162	Pleasant Valley P.P. - yard	8.5	AHD -	.20	31.00	.697	28.0	2.84	4.7	H-PVY-UP	
0076	Coalinga	1983	0502	2342	6.4	USBR	1162	Pleasant Valley P.P. - yard	8.5	AHD -	.20	40.00	.968	68.3	8.56	4.1	H-PVY045	
0076	Coalinga	1983	0502	2342	6.4	USBR	1162	Pleasant Valley P.P. - yard	8.5	AHD -	.20	31.00	.761	39.9	4.84	4.5	H-PVY135	
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54171	Bishop - LADWP South St	9.2	AQD -	.10	40.00	.303	11.3	3.18	4.3	A-LAD-UP	
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54171	Bishop - LADWP South St	9.2	AQD -	.10	40.00	.403	24.5	8.00	3.7	A-LAD180	
0105	Chalfant Valley	1986	0721	1442	6.2	CDMG	54171	Bishop - LADWP South St	9.2	AQD -	.10	30.00	.235	23.1	5.14	3.9	A-LAD270	

No.	Earthquake	Date & Time				Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag					Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.20		.490	22.2	10.01	5.2	ERZ-UP
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.10		.707	105.9	27.25	1.9	ERZ-NS
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.10		.765	72.1	22.49	2.3	ERZ-EW
0131	Northridge	1994	0117	1231	6.7	CDMG	24087	Arleta - Nordhoff Fire Sta #	9.2	AQD	C	.12	23.00	1.288	30.4	9.57	5.4	ARL-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24087	Arleta - Nordhoff Fire Sta #	9.2	AQD	C	.12	23.00	.545	45.6	10.24	6.5	ARL090
0131	Northridge	1994	0117	1231	6.7	CDMG	24087	Arleta - Nordhoff Fire Sta #	9.2	AQD	C	.12	23.00	.477	35.0	9.90	5.7	ARL360
0131	Northridge	1994	0117	1231	6.7	USGS	0655	Jensen Filter Plant #	6.2	--D	B	.30		.979	43.6	13.76	4.7	JEN-UP
0131	Northridge	1994	0117	1231	6.7	USGS	0655	Jensen Filter Plant #	6.2	--D	B	.08		.599	96.2	40.72	4.0	JEN022
0131	Northridge	1994	0117	1231	6.7	USGS	0655	Jensen Filter Plant #	6.2	--D	B	.20		.891	132.6	33.07	3.1	JEN292
0131	Northridge	1994	0117	1231	6.7	USGS	0637	Sepulveda VA #	8.9	--D	B	.10		1.211	48.0	11.03	5.5	SPV-UP
0131	Northridge	1994	0117	1231	6.7	USGS	0637	Sepulveda VA #	8.9	--D	B	.10		1.088	107.0	14.46	4.5	SPV270
0131	Northridge	1994	0117	1231	6.7	USGS	0637	Sepulveda VA #	8.9	--D	B			1.552	78.8	16.49	4.3	SPV360
0131	Northridge	1994	0117	1231	6.7	DWP	75	Sylmar - Converter Sta East #	6.1	--D	B			.804	32.5	9.14	3.7	SCE-UP
0131	Northridge	1994	0117	1231	6.7	DWP	75	Sylmar - Converter Sta East #	6.1	--D	B			1.251	108.2	36.53	3.8	SCE018
0131	Northridge	1994	0117	1231	6.7	DWP	75	Sylmar - Converter Sta East #	6.1	--D	B			.616	86.3	21.40	3.6	SCE288
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D		40.00	1.072	60.6	10.06	2.1	TAZ-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D		40.00	.881	83.6	25.97	2.1	TAZ000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D	.13	33.00	1.007	89.0	20.11	2.1	TAZ090
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D	.20		.636	22.8	6.74	7.4	TAK-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D			.768	146.4	39.15	5.4	TAK000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D			1.052	113.8	35.42	4.5	TAK090

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M=6-7, D=10-50 km

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No.	Earthquake	Date & Time		HRM N	Mag	Own	No.	Station	Closest Dist (km)	Site Codes Geom USGS	Filter Corners			PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY								HP (hz)	LP (hz)						
0030	San Fernando	1971	0209	1400	6.6	ACOE	289	Whittier Narrows Dam	45.1	IHD	-	.10	30.00	.082	5.1	3.71	8.0	WNDDWN
0030	San Fernando	1971	0209	1400	6.6	ACOE	289	Whittier Narrows Dam	45.1	IHD	-	.10	20.00	.197	9.9	5.44	6.7	WND143
0030	San Fernando	1971	0209	1400	6.6	ACOE	289	Whittier Narrows Dam	45.1	IHD	-	.10	20.00	.212	13.2	5.34	6.8	WND233
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5053	Calexico Fire Station	10.6	AQD	C	.10	40.00	.477	12.0	3.55	6.6	H-CXO-UP
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5053	Calexico Fire Station	10.6	AQD	C	.10	40.00	.513	30.5	9.20	6.5	H-CXO225
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5053	Calexico Fire Station	10.6	AQD	C	.20	40.00	.349	25.9	8.05	7.1	H-CXO315
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5056	El Centro Array #1	15.5	AQD	C	.10	40.00	.164	5.1	2.39	7.5	H-E01-UP
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5056	El Centro Array #1	15.5	AQD	C	.10	40.00	.280	19.0	6.41	5.4	H-E01140
0050	Imperial Valley	1979	1015	2316	6.5	USGS	5056	El Centro Array #1	15.5	AQD	C	.10	40.00	.277	11.3	5.44	7.0	H-E01230
0071	Taiwan SMART1(5)	1981	0129		6.3		29	SMART1 M07	21.0	IZD	-	.20	25.00	.129	3.1	.49	6.1	05M07DN
0071	Taiwan SMART1(5)	1981	0129		6.3		29	SMART1 M07	21.0	IZD	-	.10	25.00	.206	10.5	1.16	6.4	05M07EW
0071	Taiwan SMART1(5)	1981	0129		6.3		29	SMART1 M07	21.0	IZD	-	.10	25.00	.222	13.9	2.30	5.4	05M07NS
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	40.00	.147	5.6	.42	5.7	LDR-UP
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.162	7.3	.65	4.8	LDR000
0103	N. Palm Springs	1986	0708	0920	6.0	CDMG	22T13	Landers Fire Station	38.2	AQD	-	.50	30.00	.221	6.3	.71	4.1	LDR090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90069	Baldwin Park - N Holly #	11.9	--D	C	.30	25.00	.235	4.9	.74	2.7	A-NHO-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90069	Baldwin Park - N Holly #	11.9	--D	C	.13	25.00	.288	13.8	2.47	2.2	A-NHO180
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90069	Baldwin Park - N Holly #	11.9	--D	C	.50	25.00	.136	6.8	.80	6.6	A-NHO270
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90013	Beverly Hills - 14145 Mulhol #	30.3	--C	C	.38	25.00	.121	3.8	.42	7.0	A-MUL-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90013	Beverly Hills - 14145 Mulhol #	30.3	--C	C	.33	25.00	.274	10.2	.82	9.0	A-MUL009
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90013	Beverly Hills - 14145 Mulhol #	30.3	--C	C	.35	25.00	.240	15.8	1.60	4.1	A-MUL279
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90003	Northridge - 17645 Saticoy St #	39.8	--D	C	.25	25.00	.214	4.6	.44	6.3	A-STC-UP
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90003	Northridge - 17645 Saticoy St #	39.8	--D	C	.23	25.00	.412	11.5	1.00	3.4	A-STC090
0117	Whittier Narrows	1987	1001	1442	6.0	USC	90003	Northridge - 17645 Saticoy St #	39.8	--D	C	.20	25.00	.277	7.0	.86	7.8	A-STC180
0119	Superstn Hills (A)	1987	1124	0514	6.3	USGS	5210	Wildlife Liquef. Array	24.7	IQD	-	.20	50.00	.475	8.1	2.30	3.2	A-IVW-UP
0119	Superstn Hills (A)	1987	1124	0514	6.3	USGS	5210	Wildlife Liquef. Array	24.7	IQD	-	.20	50.00	.262	19.1	8.07	7.0	A-IVW090
0119	Superstn Hills (A)	1987	1124	0514	6.3	USGS	5210	Wildlife Liquef. Array	24.7	IQD	-	.20	50.00	.260	15.6	5.16	7.1	A-IVW360
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58065	Saratoga - Aloha Ave	13.0	AQD	B	.10	58.00	.958	42.7	15.62	4.4	STG-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58065	Saratoga - Aloha Ave	13.0	AQD	B	.10	38.00	.929	62.0	14.45	4.3	STG000
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58065	Saratoga - Aloha Ave	13.0	AQD	B	.10	50.00	.670	53.7	26.59	4.3	STG090
0124	Georgia, USSR	1991	0615	0059	6.2			Baz	49.0	A-D	-	.10		.042	3.0	.58	10.1	BAZ-Z
0124	Georgia, USSR	1991	0615	0059	6.2			Baz	49.0	A-D	-	.10		.066	3.0	.42	11.0	BAZ-X
0124	Georgia, USSR	1991	0615	0059	6.2			Baz	49.0	A-D	-	.10		.079	3.1	.45	9.6	BAZ-Y

		Date & Time							Closest	Site Codes		Filter Corners							
No.	Earthquake	YR	MODY	HRM	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP	LP	PGA	PGV	PGD	Dur	Filename	
				N								(hz)	(hz)	(g)	(g)	(cm/s)	(s)		
0131	Northridge	1994	0117	1231	6.7	USC	90063	Glendale - Las Palmas	25.4	--	C	C	.30	30.00	.338	10.7	.62	8.0	GLP-UP
0131	Northridge	1994	0117	1231	6.7	USC	90063	Glendale - Las Palmas	25.4	--	C	C	.13	30.00	.774	20.8	2.47	6.5	GLP177
0131	Northridge	1994	0117	1231	6.7	USC	90063	Glendale - Las Palmas	25.4	--	C	C	.10	30.00	.460	13.4	1.71	6.4	GLP267
0131	Northridge	1994	0117	1231	6.7	CDMG	24389	LA - Century City CC North #	25.7	IQD	C	C	.14	23.00	.283	13.0	4.52	7.9	CCN-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24389	LA - Century City CC North #	25.7	IQD	C	C	.14	23.00	.503	32.1	8.57	7.1	CCN090
0131	Northridge	1994	0117	1231	6.7	CDMG	24389	LA - Century City CC North #	25.7	IQD	C	C	.14	23.00	.432	38.1	6.48	7.1	CCN360
0131	Northridge	1994	0117	1231	6.7	USC	90021	LA - N Westmoreland	29.0	--	D	B	.20	30.00	.263	10.8	1.69	8.1	WST-UP
0131	Northridge	1994	0117	1231	6.7	USC	90021	LA - N Westmoreland	29.0	--	D	B	.20	30.00	.853	37.5	3.65	5.8	WST000
0131	Northridge	1994	0117	1231	6.7	USC	90021	LA - N Westmoreland	29.0	--	D	B	.20	30.00	.609	37.6	5.09	5.8	WST270
0131	Northridge	1994	0117	1231	6.7	CDMG	24055	Leona Valley #5 - Ritter #	38.3	IQC	C	C	.20	23.00	.215	21.9	3.64	8.5	LV5-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	24055	Leona Valley #5 - Ritter #	38.3	IQC	C	C	.20	23.00	.297	26.3	3.40	7.4	LV5000
0131	Northridge	1994	0117	1231	6.7	CDMG	24055	Leona Valley #5 - Ritter #	38.3	IQC	C	C	.20	23.00	.191	17.3	3.80	8.5	LV5090

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M=6-7, D=50-100 km

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0030	San Fernando	1971	0209	1400	6.6	CDWR	1102	Wheeler Ridge - Ground	81.6	IBD	C	.10	30.00	.043	1.9	1.24	9.5	WRP-UP
0030	San Fernando	1971	0209	1400	6.6	CDWR	1102	Wheeler Ridge - Ground	81.6	IBD	C	.10	23.00	.063	2.5	.88	7.0	WRP090
0030	San Fernando	1971	0209	1400	6.6	CDWR	1102	Wheeler Ridge - Ground	81.6	IBD	C	.10	23.00	.097	1.9	.69	3.7	WRP180
0086	Taiwan SMART1 (25)	1983	0921		6.5		32	SMART1 E01	83.0	IZD	-	.50	25.00	.034	2.6	.43	10.3	25E01DN
0086	Taiwan SMART1 (25)	1983	0921		6.5		32	SMART1 E01	83.0	IZD	-	.20	25.00	.065	5.0	.97	7.2	25E01EW
0086	Taiwan SMART1 (25)	1983	0921		6.5		32	SMART1 E01	83.0	IZD	-	.20	25.00	.071	6.6	.97	7.4	25E01NS
0086	Taiwan SMART1 (25)	1983	0921		6.5		61	SMART1 I07	83.0	IZD	-	.10	25.00	.021	1.9	.39	10.2	25I07DN
0086	Taiwan SMART1 (25)	1983	0921		6.5		61	SMART1 I07	83.0	IZD	-	.10	25.00	.086	6.0	1.04	8.0	25I07EW
0086	Taiwan SMART1 (25)	1983	0921		6.5		61	SMART1 I07	83.0	IZD	-	.10	25.00	.072	5.9	1.37	8.5	25I07NS
0086	Taiwan SMART1 (25)	1983	0921		6.5		60	SMART1 M06	83.0	IZD	-	.10	25.00	.025	2.3	.54	8.1	25M06DN
0086	Taiwan SMART1 (25)	1983	0921		6.5		60	SMART1 M06	83.0	IZD	-	.10	25.00	.050	4.6	.79	6.7	25M06EW
0086	Taiwan SMART1 (25)	1983	0921		6.5		60	SMART1 M06	83.0	IZD	-	.10	25.00	.075	6.3	1.36	6.8	25M06NS
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	56012	Los Banos	64.4	AHD	C	.50	20.00	.025	2.1	.45	10.7	LBN-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	56012	Los Banos	64.4	AHD	C	.50	18.00	.108	7.8	2.01	12.2	LBN090
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	56012	Los Banos	64.4	AHD	C	.50	18.00	.124	9.7	1.98	16.7	LBN180
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	58223	SF Intern. Airport	71.2	AHD	C	.50	32.00	.050	1.4	.33	12.9	SFO-UP
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	58223	SF Intern. Airport	71.2	AHD	C	.50	26.00	.109	4.8	.46	11.3	SFO050
0090	Morgan Hill	1984	0424	2115	6.2	CDMG	58223	SF Intern. Airport	71.2	AHD	C	.50	24.00	.113	5.4	.68	12.6	SFO320
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58498	Hayward - BART Sta	58.9	I-D	B	.20	40.00	.234	7.4	3.14	10.6	HWB-UP
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58498	Hayward - BART Sta	58.9	I-D	B	.20	31.00	.449	28.4	3.59	8.5	HWB220
0122	Loma Prieta	1989	1018	0005	6.9	CDMG	58498	Hayward - BART Sta	58.9	I-D	B	.20	36.00	.380	16.7	2.68	9.7	HWB310
0124	Georgia, USSR	1991	0615	0059	6.2		20	Oni	52.0	A-D	-	.20		.049	2.4	.38	12.2	ONI-Z
0124	Georgia, USSR	1991	0615	0059	6.2		20	Oni	52.0	A-D	-	.20		.171	6.2	.49	11.0	ONI-X
0124	Georgia, USSR	1991	0615	0059	6.2		20	Oni	52.0	A-D	-	.20		.116	5.0	.50	11.0	ONI-Y
0131	Northridge	1994	0117	1231	6.7	USC	90070	Covina - W Badillo	56.1	--D	C	.30	30.00	.120	5.2	1.00	10.6	BAD-UP
0131	Northridge	1994	0117	1231	6.7	USC	90070	Covina - W Badillo	56.1	--D	C	.20	30.00	.242	11.1	1.23	10.2	BAD000
0131	Northridge	1994	0117	1231	6.7	USC	90070	Covina - W Badillo	56.1	--D	C	.20	30.00	.206	10.9	1.79	8.3	BAD270
0131	Northridge	1994	0117	1231	6.7	CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	C	.20	23.00	.059	2.8	.90	15.8	HNT-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	C	.20	23.00	.222	10.0	1.20	12.6	HNT000
0131	Northridge	1994	0117	1231	6.7	CDMG	13197	Huntington Beach - Lake St #	79.6	AQD	C	.20	23.00	.199	8.5	1.78	11.1	HNT090
0131	Northridge	1994	0117	1231	6.7	USC	90083	Huntington Bch - Waikiki	57.4	--D	C	.30	30.00	.057	2.4	.41	13.9	WAI-UP
0131	Northridge	1994	0117	1231	6.7	USC	90083	Huntington Bch - Waikiki	57.4	--D	C	.20	30.00	.217	8.9	1.65	11.4	WAI200
0131	Northridge	1994	0117	1231	6.7	USC	90083	Huntington Bch - Waikiki	57.4	--D	C	.20	30.00	.189	9.6	2.37	11.2	WAI290
0131	Northridge	1994	0117	1231	6.7	USC	90072	La Puente - Rimgrove Av	58.9	--D	C	1.00	30.00	.143	5.6	.36	9.1	RIM-UP

No.	Earthquake	Date & Time					Own	No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag						Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0131	Northridge	1994	0117	1231	6.7	USC		90072	La Puente - Ringrove Av	58.9	--	D C	.80	30.00	.280	13.5	1.10	8.2	RIM015
0131	Northridge	1994	0117	1231	6.7	USC		90072	La Puente - Ringrove Av	58.9	--	D C	.80	30.00	.294	15.1	1.23	8.8	RIM105
0131	Northridge	1994	0117	1231	6.7	USC		90084	Lakewood - Del Amo Blvd	59.3	--	D C	.80	30.00	.173	3.6	.28	7.8	DEL-UP
0131	Northridge	1994	0117	1231	6.7	USC		90084	Lakewood - Del Amo Blvd	59.3	--	D C	.13	30.00	.377	20.1	2.13	9.3	DELO00
0131	Northridge	1994	0117	1231	6.7	USC		90084	Lakewood - Del Amo Blvd	59.3	--	D C	.20	30.00	.273	14.1	3.12	9.7	DELO90
0131	Northridge	1994	0117	1231	6.7	CDMG		24586	Neenach - Sacatara Ck #	53.2	IHD	B	.12	46.00	.122	10.7	4.17	16.1	NEE-UP
0131	Northridge	1994	0117	1231	6.7	CDMG		24586	Neenach - Sacatara Ck #	53.2	IHD	B	.12	46.00	.124	11.6	5.96	14.8	NEE090
0131	Northridge	1994	0117	1231	6.7	CDMG		24586	Neenach - Sacatara Ck #	53.2	IHD	B	.12	46.00	.139	16.4	5.49	16.3	NEE180
0131	Northridge	1994	0117	1231	6.7	CDMG		14578	Seal Beach - Office Bldg #	64.9	IQD	B	.16	46.00	.108	3.3	.57	14.3	SEA-UP
0131	Northridge	1994	0117	1231	6.7	CDMG		14578	Seal Beach - Office Bldg #	64.9	IQD	B	.16	46.00	.150	7.4	1.92	13.7	SEA000
0131	Northridge	1994	0117	1231	6.7	CDMG		14578	Seal Beach - Office Bldg #	64.9	IQD	B	.16	46.00	.234	13.6	1.89	11.7	SEA090

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M=6-7, D=100-200 km

Date & Time							Closest Site Codes Filter Corners										Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)		
0019	El Alamo	1956	1217	1433	6.8	USGS	117	El Centro Array #9	130.0	EQD	C	.50	20.00	.063	1.9	.90	11.9	ELC-UP
0019	El Alamo	1956	1217	1433	6.8	USGS	117	El Centro Array #9	130.0	EQD	C	.10	15.00	.094	6.4	2.24	14.6	ELC180
0019	El Alamo	1956	1217	1433	6.8	USGS	117	El Centro Array #9	130.0	EQD	C	.10	15.00	.166	10.0	3.61	13.0	ELC270
0028	Borrego Mtn	1968	0409	0230	6.8	USGS	130	LB - Terminal Island	195.0	CCD	C	.10	20.00	.016	1.7	1.23	24.9	A-TLI-UP
0028	Borrego Mtn	1968	0409	0230	6.8	USGS	130	LB - Terminal Island	195.0	CCD	C	.10	15.00	.026	3.0	1.44	28.9	A-TLI249
0028	Borrego Mtn	1968	0409	0230	6.8	USGS	130	LB - Terminal Island	195.0	CCD	C	.10	15.00	.022	3.5	1.80	28.0	A-TI339
0030	San Fernando	1971	0209	1400	6.6	CIT	103	Anza Post Office	169.0	AAC	-	.50	35.00	.078	1.6	.28	11.8	AZPDWN
0030	San Fernando	1971	0209	1400	6.6	CIT	103	Anza Post Office	169.0	AAC	-	.50	35.00	.085	2.5	.29	10.4	AZP045
0030	San Fernando	1971	0209	1400	6.6	CIT	103	Anza Post Office	169.0	AAC	-	.50	35.00	.117	4.1	.41	7.3	AZP315
0030	San Fernando	1971	0209	1400	6.6	USGS	1004	Bakersfield - Harvey Aud	120.0	CCD	-	.10	15.00	.021	1.1	.50	13.0	BFA-UP
0030	San Fernando	1971	0209	1400	6.6	USGS	1004	Bakersfield - Harvey Aud	120.0	CCD	-	.10	13.00	.021	1.8	1.14	16.2	BFA180
0030	San Fernando	1971	0209	1400	6.6	USGS	1004	Bakersfield - Harvey Aud	120.0	CCD	-	.10	20.00	.020	1.6	.86	16.8	BFA270
0030	San Fernando	1971	0209	1400	6.6	USGS	1	Buena Vista - Taft	118.0	AQD	-	.20	20.00	.025	.9	.39	10.5	BVPDWN
0030	San Fernando	1971	0209	1400	6.6	USGS	1	Buena Vista - Taft	118.0	AQD	-	.10	13.00	.030	1.9	1.04	12.1	BVP090
0030	San Fernando	1971	0209	1400	6.6	USGS	1	Buena Vista - Taft	118.0	AQD	-	.10	15.00	.035	1.9	.52	14.4	BVP180
0030	San Fernando	1971	0209	1400	6.6	CDMG	12331	Hemet Fire Station	136.0	AQD	C	.50	35.00	.112	3.5	.39	7.3	H05DWN
0030	San Fernando	1971	0209	1400	6.6	CDMG	12331	Hemet Fire Station	136.0	AQD	C	.50	35.00	.125	5.0	.43	6.4	H05135
0030	San Fernando	1971	0209	1400	6.6	CDMG	12331	Hemet Fire Station	136.0	AQD	C	.50	35.00	.185	5.4	.46	7.4	H05225
0030	San Fernando	1971	0209	1400	6.6	USGS	465	San Juan Capistrano	104.0	ABC	-	.50	35.00	.077	3.5	.69	17.6	SJCDWN
0030	San Fernando	1971	0209	1400	6.6	USGS	465	San Juan Capistrano	104.0	ABC	-	.50	35.00	.126	6.1	1.00	12.6	SJC033
0030	San Fernando	1971	0209	1400	6.6	USGS	465	San Juan Capistrano	104.0	ABC	-	.50	35.00	.125	5.6	.91	12.1	SJC303
0030	San Fernando	1971	0209	1400	6.6	USGS	282	UCSB - Fluid Mech Lab	125.6	CPD	-	.20	30.00	.037	2.1	1.10	14.3	SBF-UP
0030	San Fernando	1971	0209	1400	6.6	USGS	282	UCSB - Fluid Mech Lab	125.6	CPD	-	.20	30.00	.052	4.3	.96	13.3	SBF042
0030	San Fernando	1971	0209	1400	6.6	USGS	282	UCSB - Fluid Mech Lab	125.6	CPD	-	.20	30.00	.053	4.6	1.31	14.5	SBF132
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	12331	Hemet Fire Station	105.0	AQD	C	1.00	30.00	.118	2.8	.14	14.1	A-H05-UP
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	12331	Hemet Fire Station	105.0	AQD	C	.70	25.00	.121	3.9	.22	11.6	A-H05270
0117	Whittier Narrows	1987	1001	1442	6.0	CDMG	12331	Hemet Fire Station	105.0	AQD	C	.80	25.00	.126	3.9	.18	8.7	A-H05360
0131	Northridge	1994	0117	1231	6.7	CDMG	13660	Hemet - Ryan Airfield #	144.1	IHD	-	.30	46.00	.084	4.6	.36	21.6	HEM-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	13660	Hemet - Ryan Airfield #	144.1	IHD	-	.30	46.00	.179	9.8	.98	22.2	HEM000
0131	Northridge	1994	0117	1231	6.7	CDMG	13660	Hemet - Ryan Airfield #	144.1	IHD	-	.30	46.00	.136	8.2	.90	21.9	HEM090
0131	Northridge	1994	0117	1231	6.7	CDMG	23672	San Bernadino - CSUSB Gr #	103.1	IHD	-	.30	46.00	.066	3.2	.44	16.6	BER-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	23672	San Bernadino - CSUSB Gr #	103.1	IHD	-	.30	46.00	.114	5.6	.52	16.0	BER000
0131	Northridge	1994	0117	1231	6.7	CDMG	23672	San Bernadino - CSUSB Gr #	103.1	IHD	-	.30	46.00	.225	7.8	1.00	15.9	BER090
0131	Northridge	1994	0117	1231	6.7	CDMG	23542	San Bernadino - E&Hospitality#	108.1	IHD	C	.20	46.00	.145	5.9	.66	18.6	HOS-UP

No.	Earthquake	Date & Time					No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0131	Northridge	1994	0117	1231	6.7	CDMG	23542	San Bernadino - E&Hospitality#	108.1	IHD	C	.20	46.00	.230	12.0	1.36	17.3	HOS090
0131	Northridge	1994	0117	1231	6.7	CDMG	23542	San Bernadino - E&Hospitality#	108.1	IHD	C	.20	46.00	.263	14.5	1.47	17.9	HOS180
0131	Northridge	1994	0117	1231	6.7	CDMG	12673	San Jacinto - CDF Fire Sta #	146.5	IHD	-	.16	46.00	.080	5.8	1.43	24.0	CDF-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	12673	San Jacinto - CDF Fire Sta #	146.5	IHD	-	.16	46.00	.197	14.9	1.93	22.3	CDF000
0131	Northridge	1994	0117	1231	6.7	CDMG	12673	San Jacinto - CDF Fire Sta #	146.5	IHD	-	.16	46.00	.233	14.4	2.02	20.8	CDF090
0131	Northridge	1994	0117	1231	6.7	CDMG	25091	Santa Barbara - UCSB Goleta #	111.3	AHD	-	.20	23.00	.137	6.7	1.17	8.1	SBG-UP
0131	Northridge	1994	0117	1231	6.7	CDMG	25091	Santa Barbara - UCSB Goleta #	111.3	AHD	-	.20	23.00	.272	11.1	1.50	9.8	SBG000
0131	Northridge	1994	0117	1231	6.7	CDMG	25091	Santa Barbara - UCSB Goleta #	111.3	AHD	-	.20	23.00	.189	11.8	1.91	10.8	SBG090
0133	Kobe	1995	0116	2046	6.9		99999	FUK	157.2	--D	-	.05		.040	2.5	.69	26.4	FUK-UP
0133	Kobe	1995	0116	2046	6.9		99999	FUK	157.2	--D	-	.05		.098	7.6	1.35	24.9	FUK000
0133	Kobe	1995	0116	2046	6.9		99999	FUK	157.2	--D	-	.05		.119	8.9	1.61	29.8	FUK090

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M>7, D=0-10 km

Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0006	Imperial Valley	1940	0519	0437	7.0	USGS	117	El Centro Array #9	8.3	EQD	C	.20	15.00	.379	14.3	5.89	7.9	I-ELC-UP
0006	Imperial Valley	1940	0519	0437	7.0	USGS	117	El Centro Array #9	8.3	EQD	C	.20	15.00	.371	32.7	7.75	13.1	I-ELC180
0006	Imperial Valley	1940	0519	0437	7.0	USGS	117	El Centro Array #9	8.3	EQD	C	.20	15.00	.221	24.8	11.85	16.9	I-ELC270
0046	Tabas, Iran	1978	0916		7.4		9101	Tabas	3.0	ABC	-	.05		1.312	53.9	15.62	10.2	TAB-UP
0046	Tabas, Iran	1978	0916		7.4		9101	Tabas	3.0	ABC	-	.05		.937	89.6	33.62	9.6	TAB-LN
0046	Tabas, Iran	1978	0916		7.4		9101	Tabas	3.0	ABC	-	.05		1.087	109.7	83.21	8.7	TAB-TR
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.20		.445	22.9	10.31	5.2	ERZ-UP
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.10		.579	86.0	23.90	1.9	ERZ-NS
0125	Erzican, Turkey	1992	0313		6.9		95	Erzincan	2.0	--D	C	.10		.619	59.3	19.06	2.3	ERZ-EW
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89156	Petrolia #	9.5	IMD	C	.07	23.00	.329	29.8	17.63	5.4	PET-UP
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89156	Petrolia #	9.5	IMD	C	.07	23.00	.630	46.4	11.05	6.5	PET000
0127	Cape Mendocino	1992	0425	1806	7.1	CDMG	89156	Petrolia #	9.5	IMD	C	.07	23.00	.789	93.5	20.07	2.0	PET090
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D		40.00	.975	54.5	8.95	2.1	TAZ-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D		40.00	.700	67.4	20.51	2.2	TAZ000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takarazuka	1.2	--D	D	.13	33.00	.783	72.9	16.83	2.1	TAZ090
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D	.20		.578	22.2	6.27	7.5	TAK-UP
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D			.606	116.7	31.37	5.4	TAK000
0133	Kobe	1995	0116	2046	6.9	CUE	99999	Takatori	.3	--E	D			.807	93.6	28.81	4.6	TAK090
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Yarimca	4.4	B-D	C			.463	99.8	97.19	7.8	YPT-UP
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Yarimca	4.4	B-D	C	.10	80.00	.271	93.1	97.91	11.5	YPT000
0141	Kocaeli, Turkey	1999	0817		7.4	KOERI	99999	Yarimca	4.4	B-D	C	.10	80.00	.358	65.8	34.69	6.6	YPT270
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY024	9.0	--1	C	.03	50.00	.290	62.7	45.65	16.1	CHY024-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY024	9.0	--1	C	.02	50.00	.237	45.4	28.57	17.2	CHY024-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY024	9.0	--1	C	.02	50.00	.335	47.2	32.06	13.7	CHY024-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU049	4.4	--2	C	.02	50.00	.313	32.5	25.56	16.3	TCU049-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU049	4.4	--2	C	.02	30.00	.305	45.8	29.53	18.0	TCU049-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU049	4.4	--2	C	.02	50.00	.330	45.0	28.21	20.7	TCU049-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU051	8.2	--2	C	.03	50.00	.224	43.4	39.92	20.1	TCU051-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU051	8.2	--2	C	.03	50.00	.235	29.3	33.47	20.3	TCU051-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU051	8.2	--2	C	.03	50.00	.215	33.5	27.11	20.5	TCU051-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU052	.2	--1	c	.04	50.00	.483	109.4	111.62	10.2	TCU052-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU052	.2	--1	c	.04	50.00	.545	127.4	85.41	5.2	TCU052-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU052	.2	--1	c	.04	50.00	.411	104.1	92.75	11.9	TCU052-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU060	9.4	--2	C	.02	50.00	.193	43.8	27.27	19.0	TCU060-V

Date & Time							Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename	
No.	Earthquake	YR	MODY	HRMN	Mag	Own			No.	Geom	USGS	HP (hz)	LP (hz)					PGA (g)
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU060	9.4	--2	C	.03	50.00	.122	31.9	30.02	22.7	TCU060-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU060	9.4	--2	C	.03	50.00	.189	24.7	20.88	22.1	TCU060-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU067	.3	--1	C	.04	50.00	.426	48.2	31.85	14.1	TCU067-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU067	.3	--1	C	.03	50.00	.378	55.4	24.24	12.2	TCU067-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU067	.3	--1	C	.02	50.00	.563	79.6	39.10	13.4	TCU067-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU068	1.0	--1	C	.02	50.00	.831	188.4	158.96	5.9	TCU068-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU068	1.0	--1	C	.02	50.00	.669	124.2	155.74	12.4	TCU068-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU068	1.0	--1	C	.03	50.00	.713	112.9	106.46	7.2	TCU068-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU072	7.3	--1	C	.05	50.00	.489	40.3	22.03	15.7	TCU072-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU072	7.3	--1	C	.05	50.00	.487	52.4	20.23	16.8	TCU072-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU072	7.3	--1	C	.05	50.00	.530	53.0	16.83	14.4	TCU072-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU076	1.9	--2	C	.02	50.00	.456	37.4	21.35	17.5	TCU076-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU076	1.9	--2	C	.05	50.00	.425	56.5	20.78	18.7	TCU076-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU076	1.9	--2	C	.10	50.00	.327	41.4	23.41	20.3	TCU076-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU082	5.7	--2	C	.04	50.00	.261	55.2	37.42	18.3	TCU082-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU082	5.7	--2	C	.04	50.00	.193	49.9	27.88	19.6	TCU082-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU082	5.7	--2	C	.02	50.00	.224	45.1	36.79	20.6	TCU082-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU101	2.9	--2	C	.03	50.00	.348	61.7	42.80	14.9	TCU101-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU101	2.9	--2	C	.04	50.00	.238	41.4	28.89	18.4	TCU101-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU101	2.9	--2	C	.04	50.00	.246	42.0	34.21	18.0	TCU101-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU102	1.7	--2	C	.02	50.00	.269	66.2	46.55	13.9	TCU102-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU102	1.7	--2	C	.05	50.00	.205	73.5	38.80	17.8	TCU102-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU102	1.7	--2	C	.04	50.00	.288	73.3	48.19	16.9	TCU102-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	40.00	.197	71.2	56.35	17.8	TCU128-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.05	30.00	.172	65.5	42.12	14.2	TCU128-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU128	9.7	--1	B	.02	30.00	.138	52.2	48.52	17.3	TCU128-W
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Duzce	6.7	--D	C	.06	50.00	.702	29.5	26.84	5.9	DZC-UP
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Duzce	6.7	--D	C	.06	50.00	.364	59.5	35.20	6.0	DZC180
0143	Duzce, Turkey	1999	1112		7.1	ERD	99999	Duzce	6.7	--D	C	.08	50.00	.549	68.8	42.83	6.1	DZC270

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M>7, D=10-50 km

Date & Time							Closest Site Codes Filter Corners												
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
0046	Tabas, Iran	1978	0916		7.4		70	Boshrooyeh	26.1	--	C	-	.06		.233	15.3	11.19	16.5	BOS-V1
0046	Tabas, Iran	1978	0916		7.4		70	Boshrooyeh	26.1	--	C	-	.04	20.00	.167	15.6	9.17	17.6	BOS-L1
0046	Tabas, Iran	1978	0916		7.4		70	Boshrooyeh	26.1	--	C	-	.04	20.00	.138	22.3	9.71	17.0	BOS-T1
0113	Taiwan SMART1 (45) 1986		1114		7.3		62	SMART1 I01	39.0	IZD	-	.10	25.00	.209	12.8	5.65	12.2	I01DN	
0113	Taiwan SMART1 (45) 1986		1114		7.3		62	SMART1 I01	39.0	IZD	-	.10	25.00	.204	28.9	9.30	10.9	I01EW	
0113	Taiwan SMART1 (45) 1986		1114		7.3		62	SMART1 I01	39.0	IZD	-	.10	25.00	.214	33.3	11.09	13.3	I01NS	
0113	Taiwan SMART1 (45) 1986		1114		7.3		29	SMART1 M07	39.0	IZD	-	.20	25.00	.261	12.8	5.74	10.8	M07DN	
0113	Taiwan SMART1 (45) 1986		1114		7.3		29	SMART1 M07	39.0	IZD	-	.10	25.00	.259	25.2	8.54	9.9	45M07EW	
0113	Taiwan SMART1 (45) 1986		1114		7.3		29	SMART1 M07	39.0	IZD	-	.20	25.00	.246	30.3	10.86	11.1	45M07NS	
0113	Taiwan SMART1 (45) 1986		1114		7.3		66	SMART1 O08	39.0	IZD	-	.10	25.00	.283	15.7	6.01	10.9	45O08DN	
0113	Taiwan SMART1 (45) 1986		1114		7.3		66	SMART1 O08	39.0	IZD	-	.10	25.00	.207	25.3	8.35	11.9	45O08EW	
0113	Taiwan SMART1 (45) 1986		1114		7.3		66	SMART1 O08	39.0	IZD	-	.10	25.00	.233	34.7	12.73	10.8	45O08NS	
0129	Landers	1992	0628	1158	7.3	CDMG	12025	Palm Springs Airport #	37.5	IQD	C	.07	23.00	.296	12.1	4.63	23.8	PSA-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12025	Palm Springs Airport #	37.5	IQD	C	.07	23.00	.120	13.7	4.48	26.4	PSA000	
0129	Landers	1992	0628	1158	7.3	CDMG	12025	Palm Springs Airport #	37.5	IQD	C	.07	23.00	.142	17.5	5.38	27.3	PSA090	
0129	Landers	1992	0628	1158	7.3	CDMG	22074	Yermo Fire Station #	24.9	AQD	C	.07	23.00	.383	16.1	10.25	13.4	YER-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	22074	Yermo Fire Station #	24.9	AQD	C	.07	23.00	.323	43.9	32.94	10.1	YER270	
0129	Landers	1992	0628	1158	7.3	CDMG	22074	Yermo Fire Station #	24.9	AQD	C	.07	23.00	.224	31.0	20.13	12.7	YER360	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Duzce	14.2	--	D	C	.08	20.00	.613	31.3	24.23	3.4	DZC-UP
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Duzce	14.2	--	D	C		20.00	.452	66.4	41.49	5.0	DZC180
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Duzce	14.2	--	D	C	.08	15.00	.508	60.5	17.43	2.1	DZC270
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	WGK	11.1	--	2	C	.06	33.00	.456	28.6	19.46	12.3	WGK-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	WGK	11.1	--	2	C	.07	50.00	.479	48.4	25.76	14.0	WGK-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	WGK	11.1	--	2	C	.06	50.00	.617	85.3	44.87	15.2	WGK-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY036	20.3	--	2	C	.04	50.00	.243	16.4	16.00	19.0	CHY036-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY036	20.3	--	2	C	.03	50.00	.295	50.6	38.46	14.0	CH036-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY036	20.3	--	2	C	.05	50.00	.455	42.2	21.49	13.0	CHY036-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY101	11.1	--	2	C	.04	50.00	.365	50.0	36.20	12.5	CHY101-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY101	11.1	--	2	C	.04	50.00	.661	101.6	77.96	12.9	CHY101-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	CHY101	11.1	--	2	C	.03	50.00	.483	78.9	44.15	14.3	CHY101-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA006	44.0	--	2	C	.03	50.00	.162	9.8	6.59	15.5	HWA006-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA006	44.0	--	2	C	.06	50.00	.129	9.0	4.09	14.8	HWA006-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA006	44.0	--	2	C	.06	50.00	.105	10.3	3.02	15.5	HWA006-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA030	46.3	--	2	C	.02	50.00	.098	12.4	7.85	16.3	HWA030-V

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No.	Earthquake	Date & Time					No.	Station	Closest Dist (km)	Site Codes		Filter Corners			PGV (g)	PGD (cm/s)	Dur (s)	Filename
		YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)	PGA (g)				
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA030	46.3	--2	C	.02	50.00	.101	14.1	2.62	14.0	HWA030-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA030	46.3	--2	C	.02	50.00	.099	11.8	4.16	12.6	HWA030-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA035	45.8	--2	C	.02	50.00	.139	11.5	6.23	15.0	HWA035-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA035	45.8	--2	C	.02	50.00	.102	8.9	3.80	13.2	HWA035-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	HWA035	45.8	--2	C	.02	50.00	.115	8.8	4.46	14.6	HWA035-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU038	22.4	--2	C	.02	5.00	.158	50.5	42.72	21.1	TCU038-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU038	22.4	--2	C	.05	20.00	.233	60.8	37.69	18.6	TCU038-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU038	22.4	--2	C	.02	50.00	.197	50.0	46.26	18.9	TCU038-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU042	23.3	--2	C	.02	50.00	.195	44.8	34.52	19.3	TCU042-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU042	23.3	--2	C	.05	50.00	.241	45.2	30.48	19.4	TCU042-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TCU042	23.3	--2	C	.02	50.00	.352	38.9	42.94	16.0	TCU042-W

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M>7, D=50-100 km

Date & Time								Closest		Site Codes		Filter Corners							
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename	
0129	Landers	1992	0628	1158	7.3	CDMG	12331	Hemet Fire Station #	69.5	AQD	C	.16	23.00	.224	5.1	2.15	22.6	H05-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12331	Hemet Fire Station #	69.5	AQD	C	.16	23.00	.178	7.3	1.36	22.4	H05000	
0129	Landers	1992	0628	1158	7.3	CDMG	12331	Hemet Fire Station #	69.5	AQD	C	.16	23.00	.186	7.2	2.38	21.0	H05090	
0129	Landers	1992	0628	1158	7.3	CDMG	12026	Indio - Coachella Canal #	55.7	IQD	C	.10	23.00	.134	9.4	5.18	25.3	IND-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	12026	Indio - Coachella Canal #	55.7	IQD	C	.10	23.00	.186	12.3	4.05	25.5	IND000	
0129	Landers	1992	0628	1158	7.3	CDMG	12026	Indio - Coachella Canal #	55.7	IQD	C	.10	23.00	.181	19.4	7.62	27.0	IND090	
0129	Landers	1992	0628	1158	7.3	CDMG	23542	San Bernadino - E & Hospitality	80.5	--D	C	.10	50.00	.157	13.5	3.25	25.2	HOS-UP	
0129	Landers	1992	0628	1158	7.3	CDMG	23542	San Bernadino - E & Hospitality	80.5	--D	C	.10	50.00	.145	27.4	11.55	21.6	HOS090	
0129	Landers	1992	0628	1158	7.3	CDMG	23542	San Bernadino - E & Hospitality	80.5	--D	C	.10	50.00	.153	15.9	8.58	22.4	HOS180	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Cekmece	76.1	--D	C	.60	20.00	.137	6.4	.57	4.7	CEK-UP	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Cekmece	76.1	--D	C	.30	20.00	.215	18.9	1.66	4.4	CEK000	
0141	Kocaeli, Turkey	1999	0817		7.4	ERD	99999	Cekmece	76.1	--D	C	.40	20.00	.208	9.5	1.18	5.8	CEK270	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN	94.3	--2	C	.30	12.00	.030	3.9	1.17	35.4	TTN-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN	94.3	--2	C	.10	12.00	.041	11.6	6.26	30.7	TTN-E	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN	94.3	--2	C	.11	12.00	.035	7.6	2.49	31.3	TTN-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	CHY078	82.4	--2	C	.03	24.00	.062	6.3	6.59	32.5	CHY078-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	CHY078	82.4	--2	C	.03	24.00	.076	10.3	5.83	31.7	CHY078-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	CHY078	82.4	--2	C	.03	20.00	.164	13.4	3.72	32.5	CHY078-W	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA011	56.7	--2	C	.02	40.00	.100	13.1	7.19	19.6	HWA011-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA011	56.7	--2	C	.02	30.00	.154	26.2	9.42	23.7	HWA011-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA011	56.7	--2	C	.02	30.00	.142	19.4	8.12	16.9	HWA011-W	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA013	57.4	--2	C	.02	50.00	.149	12.0	7.69	18.9	HWA013-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA013	57.4	--2	C	.02	50.00	.225	28.9	8.82	15.3	HWA013-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA013	57.4	--2	C	.02	50.00	.211	34.3	9.34	15.1	HWA013-W	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA041	50.0	----	C	.02	30.00	.106	15.3	9.39	30.0	HWA041-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA041	50.0	----	C	.02	30.00	.135	19.1	6.40	25.9	HWA041-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	HWA041	50.0	----	C	.02	30.00	.119	16.4	6.48	28.9	HWA041-W	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	ILA064	83.4	----	C	.02	50.00	.125	8.4	7.03	19.9	ILA064-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	ILA064	83.4	----	C	.02	50.00	.123	9.9	4.74	17.2	ILA064-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	ILA064	83.4	----	C	.02	40.00	.116	10.4	3.93	16.7	ILA064-W	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TCU017	52.2	--2	C	.02	50.00	.115	22.9	21.52	20.8	TCU017-V	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TCU017	52.2	--2	C	.02	50.00	.161	33.5	27.01	16.8	TCU017-N	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TCU017	52.2	--2	C	.02	33.00	.157	30.3	37.93	17.3	TCU017-W	
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN001	57.6	--2	C	.03	30.00	.096	13.6	10.82	24.1	TTN001-V	

Date & Time							Closest		Site Codes		Filter Corners							
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN001	57.6	--2	C	.03	30.00	.145	22.1	6.74	23.8	TTN001-E
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN001	57.6	--2	C	.03	30.00	.116	14.1	4.11	25.2	TTN001-N
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN010	95.2	--2	C	.03	14.00	.029	3.9	3.60	35.0	TTN010-V
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN010	95.2	--2	C	.03	14.00	.047	7.3	3.51	34.4	TTN010-N
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN010	95.2	--2	C	.02	14.00	.038	7.9	5.24	31.6	TTN010-W
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN020	57.6	--2	C	.02	30.00	.047	8.8	5.36	34.6	TTN020-V
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN020	57.6	--2	C	.02	23.00	.048	7.9	5.45	27.4	TTN020-N
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN020	57.6	--2	C	.02	23.00	.065	10.2	7.31	31.9	TTN020-W
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN023	63.2	----	C	.03	30.00	.059	8.5	4.18	32.5	TTN023-V
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN023	63.2	----	C	.02	30.00	.104	16.1	4.50	36.8	TTN023-N
0142	Chi-Chi-Taiwan	1999	0920		7.6	CWB	99999	TTN023	63.2	----	C	.02	30.00	.073	12.5	6.69	31.5	TTN023-W

NRC TIME HISTORY LIBRARY: CEUS, SOIL, M>7, D=100-200 km

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Date & Time							Closest Site Codes Filter Corners											
No.	Earthquake	YR	MODY	HRMN	Mag	Own	No.	Station	Closest Dist (km)	Geom	USGS	HP (hz)	LP (hz)	PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
0012	Kern County	1952	0721	1153	7.4	USGS	135	LA - Hollywood Stor FF	120.5	IPD	C	.20	20.00	.069	4.6	1.76	17.6	PEL-UP
0012	Kern County	1952	0721	1153	7.4	USGS	135	LA - Hollywood Stor FF	120.5	IPD	C	.20	15.00	.123	11.1	3.76	20.5	PEL090
0012	Kern County	1952	0721	1153	7.4	USGS	135	LA - Hollywood Stor FF	120.5	IPD	C	.20	13.00	.131	8.7	1.98	19.7	PEL180
0046	Tabas, Iran	1978	0916		7.4		69	Bajestan	121.2	--C	-	.05		.141	6.7	6.50	23.7	BAJ-V1
0046	Tabas, Iran	1978	0916		7.4		69	Bajestan	121.2	--C	-	.02	15.00	.246	7.8	5.06	21.8	BAJ-L1
0046	Tabas, Iran	1978	0916		7.4		69	Bajestan	121.2	--C	-	.02	15.00	.157	6.0	4.59	22.3	BAJ-T1
0046	Tabas, Iran	1978	0916		7.4		73	Sedeh	164.5	--D	-	.02	20.00	.057	6.8	8.20	21.6	SED-V1
0046	Tabas, Iran	1978	0916		7.4		73	Sedeh	164.5	--D	-	.02	20.00	.072	4.6	3.02	22.4	SED-L1
0046	Tabas, Iran	1978	0916		7.4		73	Sedeh	164.5	--D	-	.02	20.00	.078	4.9	2.71	22.2	SED-T1
0129	Landers	1992	0628	1158	7.3	USC	90094	Bell Gardens - Jaboneria #	153.9	--D	C	.65	25.00	.054	2.1	.27	23.8	JAB-UP
0129	Landers	1992	0628	1158	7.3	USC	90094	Bell Gardens - Jaboneria #	153.9	--D	C	.30	25.00	.101	5.7	1.34	24.3	JAB220
0129	Landers	1992	0628	1158	7.3	USC	90094	Bell Gardens - Jaboneria #	153.9	--D	C	.18	25.00	.097	13.3	4.27	22.2	JAB310
0129	Landers	1992	0628	1158	7.3	USC	90012	Burbank - N Buena Vista #	162.1	--D	C	.33	25.00	.102	6.6	1.50	26.8	BUE-UP
0129	Landers	1992	0628	1158	7.3	USC	90012	Burbank - N Buena Vista #	162.1	--D	C	.25	25.00	.118	8.9	2.45	25.7	BUE250
0129	Landers	1992	0628	1158	7.3	USC	90012	Burbank - N Buena Vista #	162.1	--D	C	.28	25.00	.185	14.2	3.30	25.4	BUE340
0129	Landers	1992	0628	1158	7.3	USC	90002	Fountain Valley - Euclid #	148.8	--D	C	.90	25.00	.067	2.2	.20	23.9	EUC-UP
0129	Landers	1992	0628	1158	7.3	USC	90002	Fountain Valley - Euclid #	148.8	--D	C	.13	25.00	.162	21.4	8.78	26.7	EUC022
0129	Landers	1992	0628	1158	7.3	USC	90002	Fountain Valley - Euclid #	148.8	--D	C	.13	25.00	.137	18.9	4.40	24.8	EUC292
0129	Landers	1992	0628	1158	7.3	USC	90025	LA - E Vernon Ave #	157.7	--D	C	.38	25.00	.083	4.1	.99	23.7	VER-UP
0129	Landers	1992	0628	1158	7.3	USC	90025	LA - E Vernon Ave #	157.7	--D	C	.13	25.00	.076	10.4	5.03	23.8	VER090
0129	Landers	1992	0628	1158	7.3	USC	90025	LA - E Vernon Ave #	157.7	--D	C	.18	25.00	.093	9.7	4.41	22.6	VER180
0129	Landers	1992	0628	1158	7.3	USC	90080	LB - Orange Ave #	164.5	--D	C	.50	25.00	.080	2.6	.38	24.2	OR2-UP
0129	Landers	1992	0628	1158	7.3	USC	90080	LB - Orange Ave #	164.5	--D	C	.15	25.00	.137	10.8	4.39	25.5	OR2010
0129	Landers	1992	0628	1158	7.3	USC	90080	LB - Orange Ave #	164.5	--D	C	.15	25.00	.155	14.3	5.49	24.7	OR2280
0129	Landers	1992	0628	1158	7.3	USC	90077	Santa Fe Springs - E Joslin #	150.4	--D	C	.35	25.00	.105	3.9	.71	23.2	EJS-UP
0129	Landers	1992	0628	1158	7.3	USC	90077	Santa Fe Springs - E Joslin #	150.4	--D	C	.18	25.00	.120	10.3	2.60	25.2	EJS030
0129	Landers	1992	0628	1158	7.3	USC	90077	Santa Fe Springs - E Joslin #	150.4	--D	C	.15	25.00	.115	10.7	3.81	24.3	EJS120
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	SGL	105.0	--2	C	.20	8.00	.026	3.6	1.22	26.3	SGL-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	SGL	105.0	--2	C	.10	14.00	.066	8.8	2.94	26.9	SGL-E
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	SGL	105.0	--2	C	.20	14.00	.062	8.7	2.17	27.7	SGL-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA002	109.1	----	C	.02	30.00	.070	9.4	7.74	27.5	ILA002-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA002	109.1	----	C	.04	24.00	.160	12.9	5.16	22.2	ILA002-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	ILA002	109.1	----	C	.02	24.00	.098	12.2	5.70	23.2	ILA002-W

Date & Time							No.	Station	Closest Dist (km)	Site Codes		Filter Corners		PGA (g)	PGV (g)	PGD (cm/s)	Dur (s)	Filename
No.	Earthquake	YR	MODY	HRMN	Mag	Own				Geom	USGS	HP (hz)	LP (hz)					
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP024	100.2	--2	C	.02	50.00	.097	12.2	10.00	24.8	TAP024-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP024	100.2	--2	C	.02	50.00	.130	22.3	7.33	20.9	TAP024-S
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP024	100.2	--2	C	.02	50.00	.123	16.6	11.61	21.1	TAP024-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP046	127.2	--1	C	.02	30.00	.058	4.6	5.82	23.7	TAP046-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP046	127.2	--1	C	.02	30.00	.114	8.4	3.60	21.9	TAP046-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP046	127.2	--1	C	.02	24.00	.181	13.7	5.75	21.8	TAP046-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP084	127.7	----	C	.03	40.00	.045	7.0	7.14	28.5	TAP084-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP084	127.7	----	C	.02	40.00	.059	6.0	3.65	30.1	TAP084-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TAP084	127.7	----	C	.02	40.00	.064	8.6	2.96	24.8	TAP084-W
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN003	108.1	----	C	.02	20.00	.056	3.9	2.53	28.5	TTN003-V
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN003	108.1	----	C	.03	20.00	.036	3.4	2.10	32.0	TTN003-N
0142	Chi-Chi, Taiwan	1999	0920		7.6	CWB	99999	TTN003	108.1	----	C	.03	20.00	.047	4.8	1.88	33.1	TTN003-W

Notes:

1. M is moment magnitude
2. Station numbers were assigned where not available, using numbers 1-33 and 60-100.
3. Distances marked with a * are hypocentral instead of closest distances.
4. Site codes are from two sources: 1) Geomatrix (3 letter), 2) USGS (1 letter), described below.

5. GEOMATRIX 3-LETTER SITE CLASSIFICATIONS:

FIRST LETTER: Instrument housing

I = Free-field instrument or instrument shelter. Instrument is located at or within several feet of the ground surface.

A = One-story structure of lightweight construction. Instrument is located at the lowest level and within several feet of the ground surface.

B = Two- to four-story structure of lightweight construction. Instrument is located at the lowest level and within several feet of the ground surface.

C = Two- to four-story structure of lightweight construction. Instrument is located at the lowest level in a basement and below the ground surface.

D = Five or more story structure of heavy construction. Instrument is located at the lowest level and within several feet of the ground surface.

E = Five or more story structure of heavy construction. Instrument is located at the lowest level in a basement and below the ground surface.

F = Structure housing instrument is buried below the ground surface, e.g. tunnel.

G = Structure of light or heavyweight construction, instrument not at lowest level.

H = Earth dam.

I = Concrete Dam.

SECOND LETTER: Mapped local geology

Sedimentary or metasedimentary:

H = Holocene (Recent) Quaternary (< 15000y bp).

Q = Pleistocene Quaternary (<2my bp).

P = Pliocene Tertiary (<6my bp).

M = Miocene Tertiary (< 22my bp).

O = Oligocene Tertiary (< 36my bp).

E = Eocene Tertiary (< 58my bp).

L = Paleocene Tertiary (< 63my bp).

K = Cretaceous (< 145my bp).

F = Franciscan Formation (Cretaceous/Late Jurassic).

J = Jurassic (< 210my bp).

T = Triassic (< 255my bp).

Z = Permian or older (> 255my bp).

Igneous or meta-igneous:

V = Volcanic (extrusive).

N = Intrusive.

G = Granitic.

THIRD LETTER: Geotechnical subsurface characteristics

A = Rock. Instrument on rock ($V_s > 600$ mps) or < 5m of soil over rock.

B = Shallow (stiff) soil. Instrument on/in soil profile up to 20m thick overlying rock.

C = Deep narrow soil. Instrument on/in soil profile at least 20m thick overlying rock, in a narrow canyon or valley no more than several km wide.

D = Deep broad soil. Instrument on/in soil profile at least 20m thick overlying rock, in a broad valley.

E = Soft deep soil. Instrument on/in deep soil profile with average $V_s < 150$ mps.

6. USGS 1-LETTER SITE CLASSIFICATIONS

Average shear-wave velocity to a depth of 30m is:

A = > 750 m/s

B = 360 - 750 m/s

C = 180 - 360 m/s

D = < 180 m/s

APPENDIX C WUS STATISTICAL RESPONSE SPECTRAL SHAPES (SA/PGA, 5% DAMPING) FOR ROCK AND DEEP SOIL SITE CONDITIONS

This Appendix contains bin average (median) statistical response spectral shapes computed using the WUS strong motion catalog (Appendix A). Table C-1 lists the *M* and *R* bins, average parameters, and number of recordings comprising each average shape. Although not used in developing the revised spectral shapes (Section 4) due to potential diluting of near-fault effects, statistical shapes were computed for a 0 to 50 km distance bin and are shown here for completeness. Horizontal component shapes for rock and deep soil are followed by vertical component shapes for both rock and deep soil site conditions.

For each component, response spectra are computed in a bandwidth that extends to 1.25 (or 1/1.25) of filter corner frequencies (Appendix A). This primarily affects the low frequencies and results in an increased variability as frequency decreases due to loss of records.

Table C-1 WUS STATISTICAL SHAPE BINS (HORIZONTAL COMPONENT)								
<u>Magnitude Bins (M)</u>								
Distance Bin (km)	<u>Range</u>			<u>Bin Center</u>				
	5 - 6	6 - 7	7+	5.5	6.5	7.5		
	$\bar{M}$	$\bar{R}$ (km)	Number of spectra	PGA** (g), σ_{ln}	PGV** (cm/sec), σ_{ln}	PGD** (cm), σ_{ln}	$\frac{PGV^{**}}{PGA} \left(\frac{cm/sec}{g} \right)$ σ_{ln}	$\frac{PGA \cdot PGD^{**}}{PGV^2}$ σ_{ln}
0 - 10, rock	5.54	7.91	30	0.18, 0.91	8.14, 1.14	0.80, 1.60	44.50, 0.58	2.17, 0.28
	6.53	5.75	32	0.44, 0.76	32.65, 0.93	6.22, 1.26	73.51, 0.40	2.54, 0.42
	7.27	4.20	6	0.93, 0.26	81.73, 0.25	47.42, 0.66	87.94, 0.39	6.47, 0.60
0 - 10, soil	5.76	7.80	24	0.26, 0.65	18.57, 0.56	3.11, 0.46	70.72, 0.33	2.32, 0.35
	6.46	6.00	77	0.38, 0.43	46.88, 0.59	14.79, 0.89	122.00, 0.44	2.54, 0.41
	7.05	8.90	4	0.40, 0.62	44.46, 0.56	21.27, 0.25	110.42, 0.07	4.25, 0.24
10 - 50, rock	5.57	21.80	180	0.11, 0.87	5.08, 0.85	0.54, 1.04	46.96, 0.37	2.24, 0.38
	6.43	30.28	238	0.13, 0.73	8.81, 0.76	1.96, 1.01	70.41, 0.49	3.09, 0.54
	7.27	31.00	6	0.17, 0.85	8.80, 0.88	2.50, 1.56	50.59, 0.37	5.51, 0.90
10 - 50, soil	5.69	21.82	378	0.11, 0.73	6.63, 0.77	0.87, 0.94	59.88, 0.34	2.16, 0.33
	6.35	28.27	542	0.14, 0.63	10.77, 0.74	2.25, 1.04	78.77, 0.41	2.57, 0.41
	7.29	33.46	56	0.16, 0.35	22.38, 0.38	10.46, 0.39	141.17, 0.36	3.25, 0.56

Table C-1 WUS STATISTICAL SHAPE BINS (HORIZONTAL COMPONENT)								
Magnitude Bins (M)								
Range				Bin Center				
5 - 6				5.5				
6 - 7				6.5				
7+				7.5				
Distance Bin (km)	$\bar{M}$	$\bar{R}$ (km)	Number of spectra	PGA** (g), σ_{ln}	PGV** (cm/sec), σ_{ln}	PGD** (cm), σ_{ln}	$\frac{PGV^{**}}{PGA} \left(\frac{cm/sec}{g} \right)$ σ_{ln}	$\frac{PGA \cdot PGD^{**}}{PGV^2}$ σ_{ln}
50 - 100, rock	5.91	64.27	34	0.05, 0.40	2.22, 0.53	0.21, 0.83	41.16, 0.43	2.24, 0.57
	6.51	70.35	102	0.06, 0.51	3.87, 0.82	0.79, 1.23	69.89, 0.56	2.88, 0.56
	7.32	81.46	10	0.06, 0.52	5.16, 0.87	2.64, 1.17	80.63, 0.45	6.23, 0.50
50 - 100, soil	5.80	67.22	42	0.06, 0.80	3.12, 0.78	0.38, 0.92	53.20, 0.23	2.28, 0.49
	6.49	67.34	158	0.07, 0.67	6.23, 0.78	1.26, 0.99	88.00, 0.42	2.26, 0.44
	7.31	79.57	14	0.10, 0.12	11.24, 0.34	5.42, 0.60	111.37, 0.35	4.24, 0.50
100 - 200, rock	5.4	107.80	2	0.02, ----	1.16, ----	0.10, ----	49.72, ----	1.74, ----
	6.64	114.57	14	0.02, 0.86	2.03, 0.38	1.09, 0.68	132.54, 0.59	3.98, 0.27
	7.30	152.01	14	0.03, 0.47	5.55, 0.66	2.43, 1.06	184.16, 0.35	2.34, 0.31
100 - 200, soil	6.0	105.00	2	0.03, ----	1.50, ----	0.11, ----	49.92, ----	1.74, ----
	6.64	132.97	28	0.03, 0.78	3.05, 0.58	0.89, 0.97	98.24, 0.53	2.90, 0.42
	7.31	147.07	88	0.04, 0.25	8.09, 0.39	3.50, 0.76	188.64, 0.36	2.25, 0.29

Table C-1 WUS STATISTICAL SHAPE BINS (HORIZONTAL COMPONENT)								
Magnitude Bins (M)								
<u>Range</u> 5 - 6 6 - 7 7+				<u>Bin Center</u> 5.5 6.5 7.5				
Distance Bin (km)	$\bar{M}$	$\bar{R}$ (km)	Number of spectra	PGA** (g), σ_{ln}	PGV** (cm/sec), σ_{ln}	PGD** (cm), σ_{ln}	$\frac{PGV^{**}}{PGA} \left(\frac{cm/sec}{g} \right)$ σ_{ln}	$\frac{PGA \cdot PGD^{**}}{PGV^2}$ σ_{ln}
0 - 50, rock	5.57	19.91	208	0.12, 0.89	5.39, 0.91	0.57, 1.14	46.73, 0.40	2.22, 0.37
	6.44	27.39	270	0.15, 0.84	10.27, 0.89	2.24, 1.10	70.77, 0.48	3.02, 0.53
	7.27	17.60	12	0.40, 1.07	26.82, 1.35	10.89, 1.94	66.70, 0.46	5.97, 0.69
soil	5.69	21.10	398	0.12, 0.75	7.02, 0.79	0.93, 0.97	60.48, 0.34	2.16, 0.33
	6.37	25.50	619	0.16, 0.70	12.93, 0.87	2.85, 1.20	83.17, 0.44	2.57, 0.41
	7.27	31.82	60	0.17, 0.42	23.43, 0.42	10.97, 0.42	138.87, 0.36	3.30, 0.55

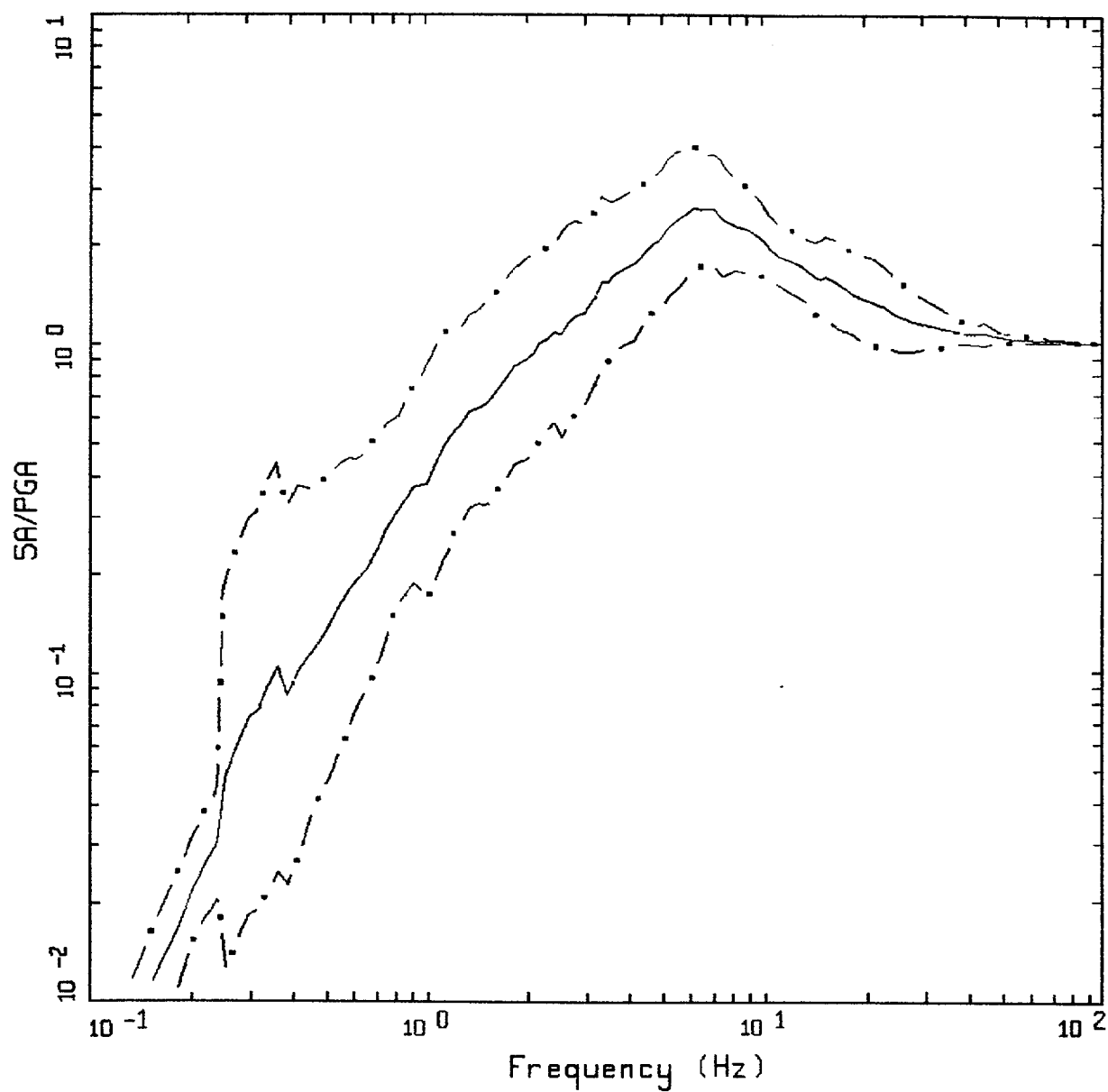
** Median values

Table C-2 WUS STATISTICAL SHAPE BINS (VERTICAL COMPONENT)								
<u>Magnitude Bins (M)</u>								
Distance Bin (km)	<u>Range</u> 5 - 6 6 - 7 7+				<u>Bin Center</u> 5.5 6.5 7.5			
	$\bar{M}$	$\bar{R}$ (km)	Number of spectra	PGA** (g), σ_{ln}	PGV** (cm/sec), σ_{ln}	PGD** (cm), σ_{ln}	$\frac{PGV^{**}}{PGA} \left(\frac{cm/sec}{g} \right)$ σ_{ln}	$\frac{PGA \cdot PGD^{**}}{PGV^2}$, σ_{ln}
0 - 10, rock	5.54	7.91	14	0.11, 0.83	3.55, 1.00	0.41, 1.54	31.80, 0.67	3.59, 0.50
	6.53	5.75	14	0.34, 0.85	17.67, 0.95	4.48, 1.25	52.19, 0.44	4.76, 0.62
	7.27	4.20	3	0.75, 0.08	49.10, 0.22	43.42, 0.93	65.69, 0.25	13.20, 0.75
0 - 10, soil	5.76	7.80	11	0.18, 0.84	6.68, 0.50	0.95, 0.56	37.89, 0.56	3.68, 0.48
	6.46	6.00	37	0.30, 0.66	15.84, 0.69	5.19, 1.03	52.89, 0.40	6.07, 0.66
	7.05	8.90	2	0.18, 0.16	16.19, 0.59	17.06, 0.88	88.57, 0.75	11.67, 0.45
10 - 50, rock	5.57	21.80	87	0.06, 0.86	2.25, 0.74	0.22, 0.98	31.17, 0.46	2.57, 0.49
	6.43	30.28	119	0.07, 0.80	4.33, 0.72	1.05, 1.11	60.29, 0.58	3.95, 0.61
	7.27	31.00	3	0.07, 0.81	4.30, 0.92	1.47, 1.38	58.52, 0.41	5.73, 0.24
10 - 50, soil	5.69	21.82	188	0.07, 0.80	2.40, 0.76	0.28, 1.00	35.78, 0.46	3.20, 0.49
	6.35	28.27	263	0.08, 0.79	4.22, 0.74	0.92, 1.07	50.69, 0.56	4.06, 0.61
	7.29	33.46	28	0.09, 0.41	7.83, 0.25	3.66, 0.37	86.35, 0.28	5.30, 0.34

Magnitude Bins (M)								
Range					Bin Center			
5 - 6					5.5			
6 - 7					6.5			
7+					7.5			
Distance Bin (km)	$\bar{M}$	$\bar{R}$ (km)	Number of spectra	PGA** (g), σ_{ln}	PGV** (cm/sec), σ_{ln}	PGD** (cm), σ_{ln}	$\frac{PGV^{**}}{PGA} \left(\frac{cm/sec}{g} \right)$, σ_{ln}	$\frac{PGA \cdot PGD^{**}}{PGV^2}$, σ_{ln}
50 - 100, rock	5.91	64.27	15	0.03, 0.33	1.25, 0.49	0.14, 1.10	38.32, 0.58	2.95, 0.80
	6.51	70.35	51	0.03, 0.50	2.02, 0.75	0.52, 1.30	68.36, 0.66	3.66, 0.71
	7.32	81.46	5	0.05, 0.37	3.78, 0.86	1.86, 1.03	77.56, 0.56	6.22, 0.63
50 - 100, soil	5.80	67.22	19	0.03, 0.77	1.18, 0.66	0.14, 1.16	44.26, 0.38	2.63, 0.68
	6.49	67.34	74	0.03, 0.71	2.11, 0.57	0.48, 0.99	70.52, 0.56	3.02, 0.69
	7.31	76.57	7	0.05, 0.18	5.11, 0.30	2.65, 0.45	96.26, 0.36	5.29, 0.54
100 - 200, rock	5.4	107.80	1	0.01, ----	0.40, ----	0.03, ----	40.00, ----	1.84, ----
	6.64	114.57	7	0.01, 0.90	1.39, 0.54	0.75, 0.81	124.36, 0.86	4.24, 0.78
	7.30	152.01	7	0.02, 0.29	2.77, 0.72	0.80, 1.25	147.89, 0.51	1.92, 0.47
100 - 200, soil	6.0	105.00	1	0.03, ----	0.90, ----	0.07, ----	33.33, ----	2.29, ----
	6.64	132.97	14	0.02, 0.63	1.42, 0.52	0.46, 0.85	91.78, 0.59	3.42, 0.56
	7.31	147.07	44	0.02, 0.28	2.55, 0.52	0.76, 1.04	135.47, 0.53	2.15, 0.45
0 - 50, rock	5.57	19.91	100	0.07, 0.88	2.39, 0.79	0.24, 1.09	36.56, 0.49	2.69, 0.51
	6.44	27.39	133	0.08, 0.93	5.02, 0.86	1.22, 1.21	59.38, 0.56	4.03, 0.61
	7.27	17.60	6	0.23, 1.37	14.52, 1.46	7.98, 2.13	62.00, 0.31	8.70, 0.68

<u>Magnitude Bins (M)</u>								
<u>Range</u> 5 - 6 6 - 7 7+					<u>Bin Center</u> 5.5 6.5 7.5			
Distance Bin (km)	$\bar{M}$	$\bar{R}$ (km)	Number of spectra	PGA** (g), σ_{ln}	PGV** (cm/sec), σ_{ln}	PGD** (cm), σ_{ln}	$\frac{PGV^{**}}{PGA} \left(\frac{cm/sec}{g} \right)$ σ_{ln}	$\frac{PGA \cdot PGD^{**}}{PGV^2}$, σ_{ln}
0 - 50, soil	5.69	21.10	197	0.07, 0.83	2.52, 0.78	0.30, 1.02	36.65, 0.46	3.24, 0.49
	6.37	25.50	300	0.10, 0.88	4.96, 0.86	1.14, 1.21	50.95, 0.54	4.27, 0.63
	7.27	31.82	30	0.10, 0.44	8.22, 0.32	4.05, 0.55	86.50, 0.31	5.58, 0.39

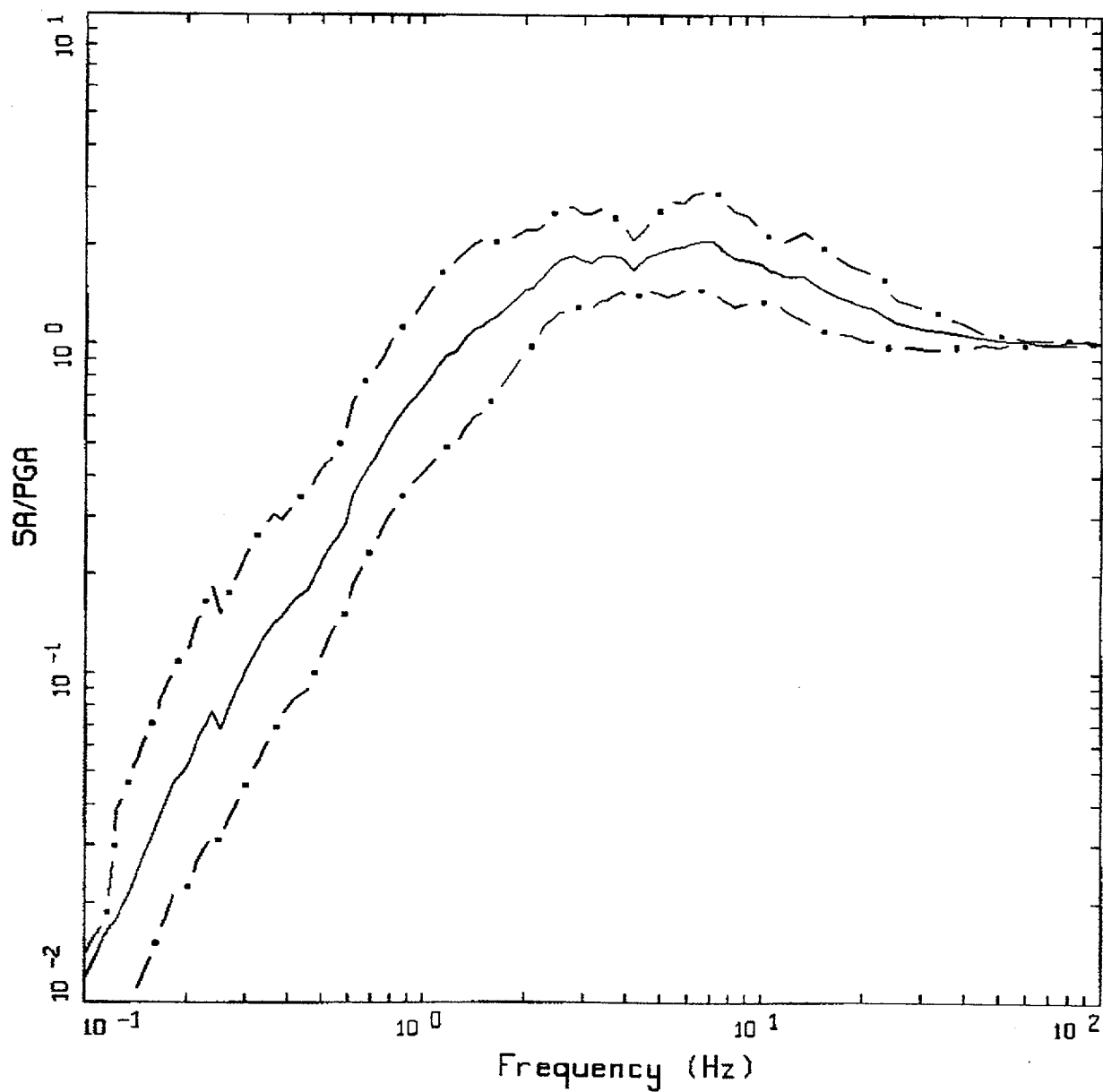
** Median values



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-10$ KM, ROCK
 AVERAGE $M = 5.54$, AVERAGE DISTANCE = 7.91 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

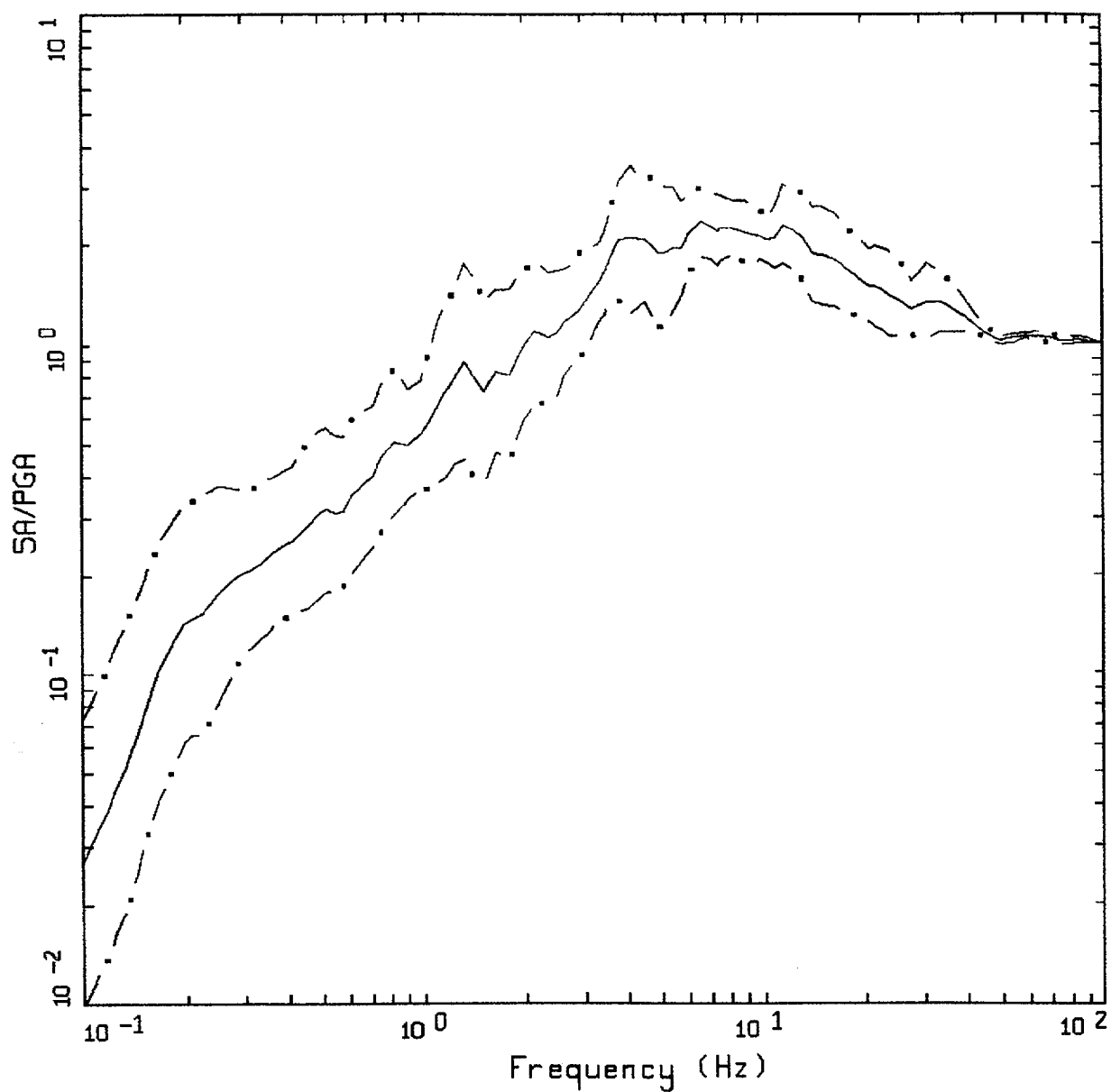
Figure C-1. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-10$ km, horizontal WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-10$ KM, ROCK
 AVERAGE $M = 6.53$, AVERAGE DISTANCE = 5.75 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

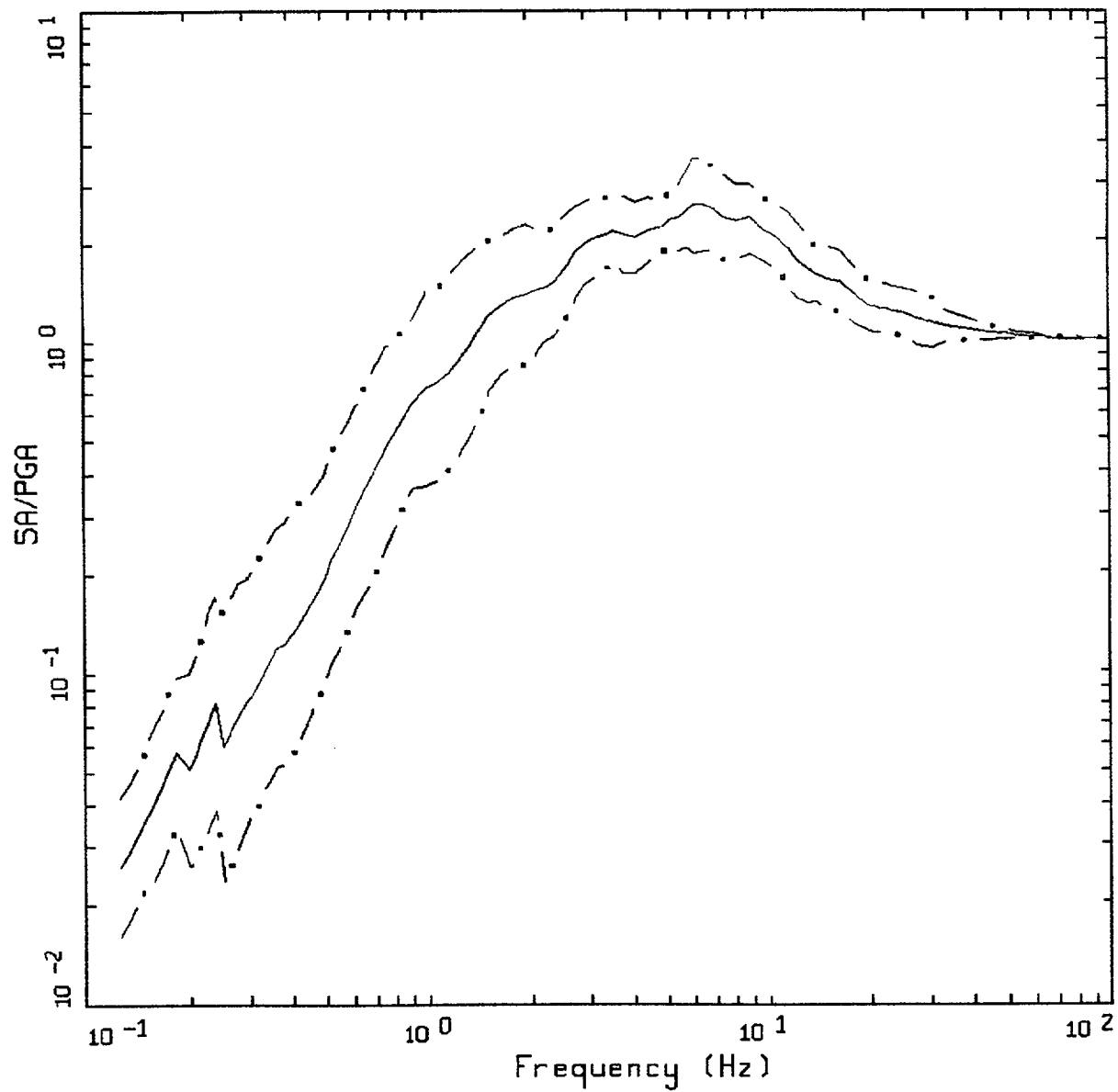
Figure C-2. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-10$ km, horizontal WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=0-10$ KM, ROCK
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 4.20 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

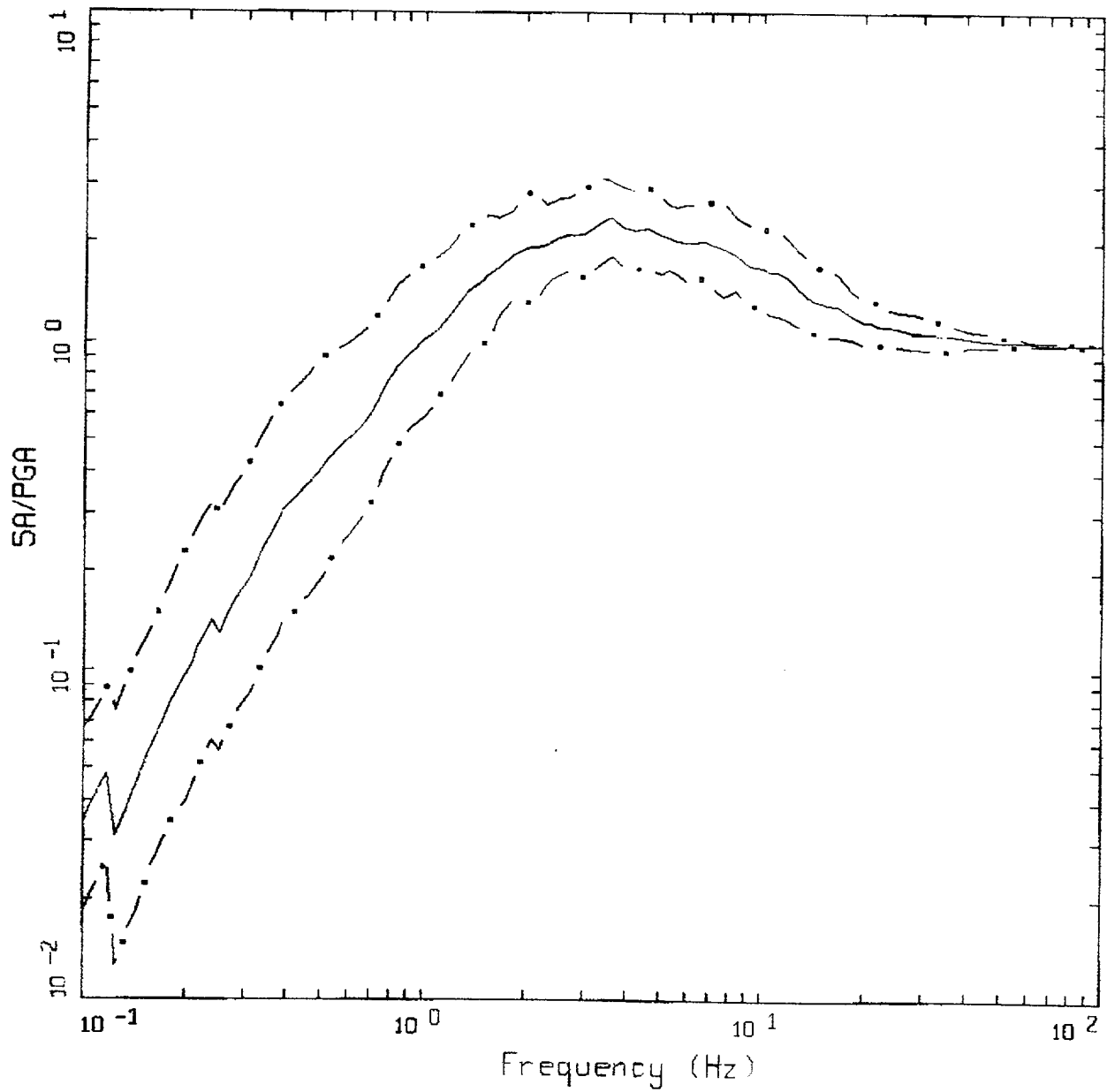
Figure C-3. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-10$ km, horizontal WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-10$ KM, SOIL
 AVERAGE $M = 5.76$, AVERAGE DISTANCE = 7.80 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

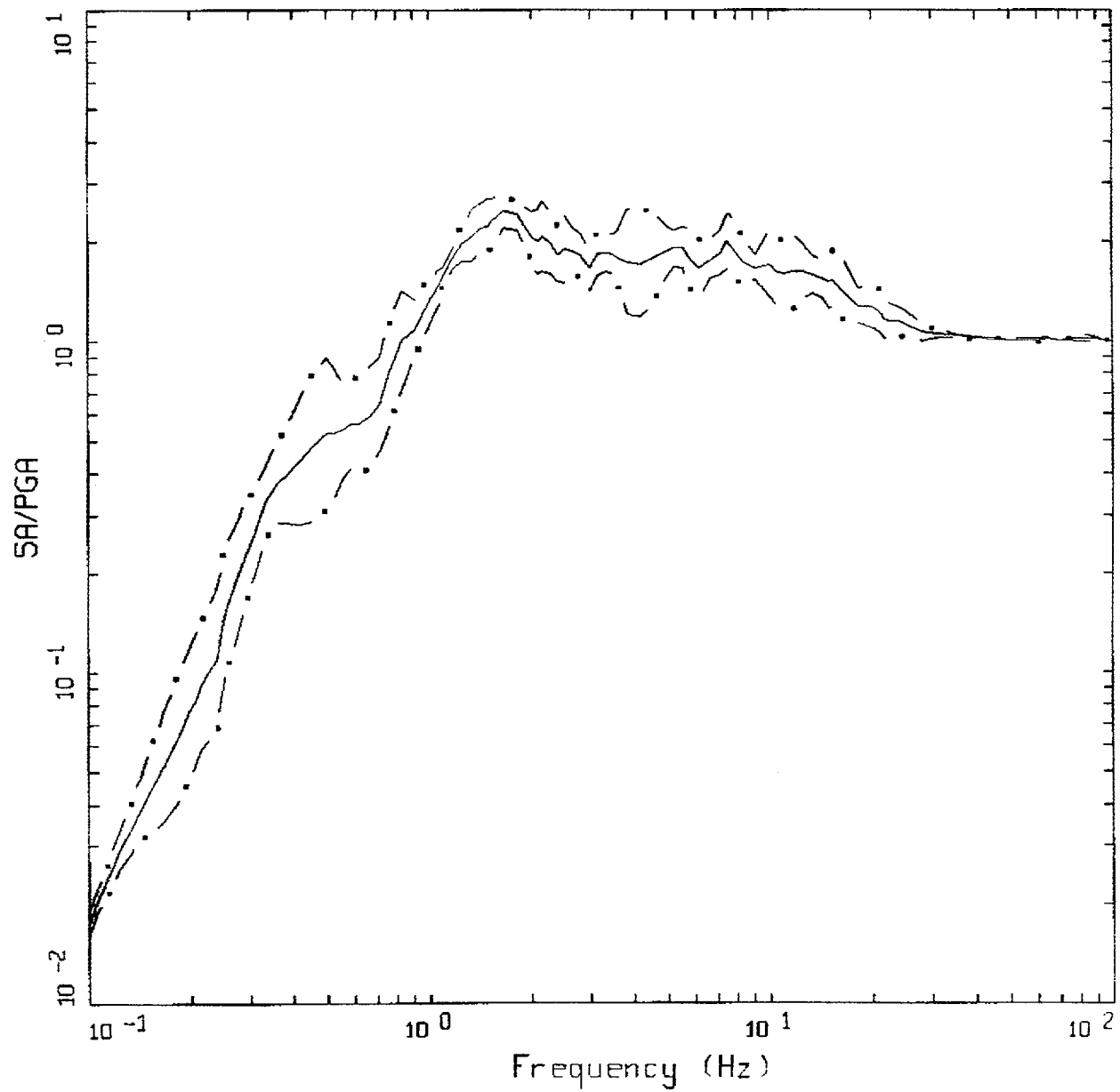
Figure C-4. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-10$ km, horizontal WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-10$ KM, SOIL
 AVERAGE $M = 6.46$, AVERAGE DISTANCE = 6.00 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

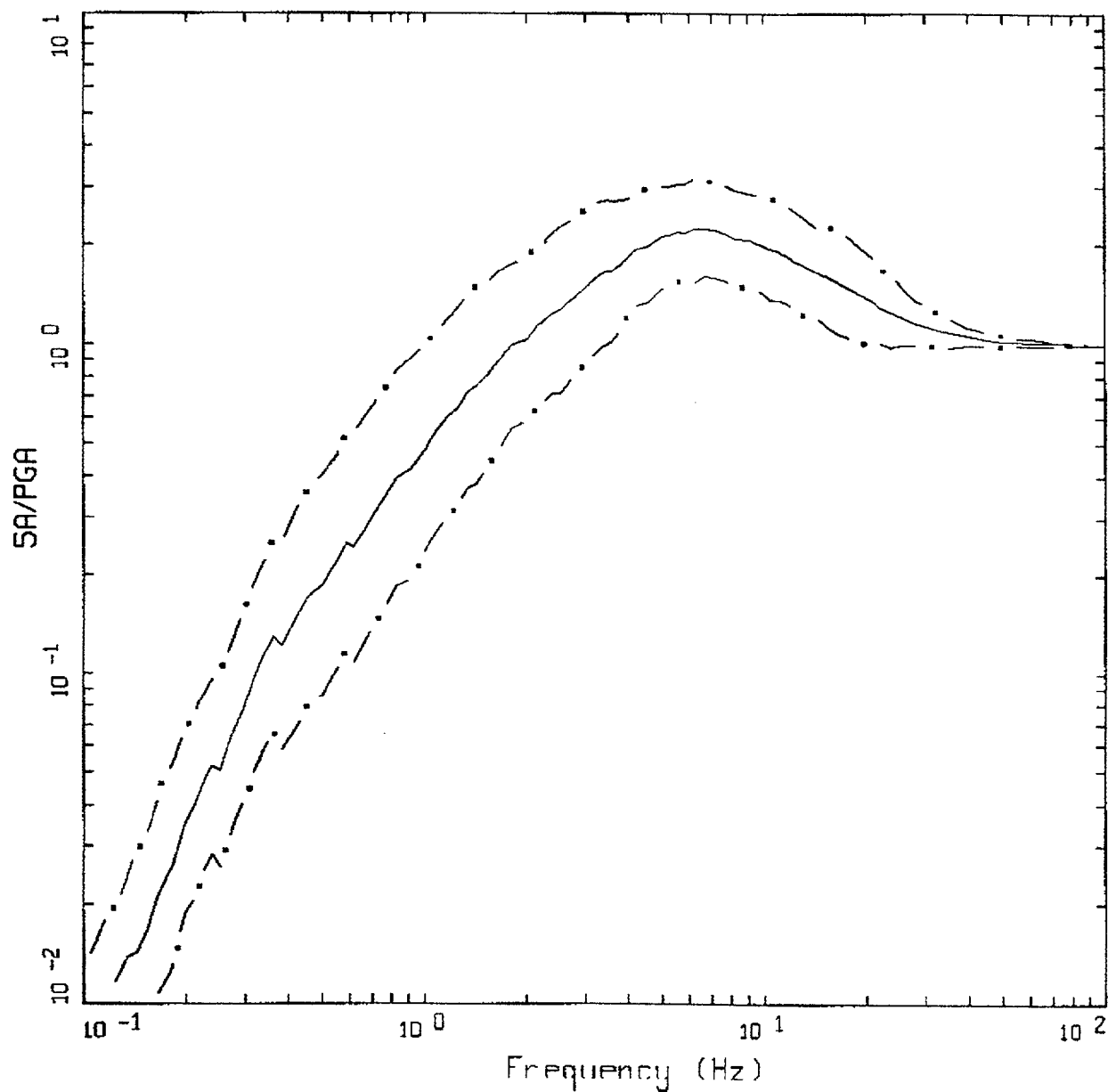
Figure C-5. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-10$ km, horizontal WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=0-10$ KM, SOIL
 AVERAGE $M = 7.05$, AVERAGE DISTANCE = 8.90 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

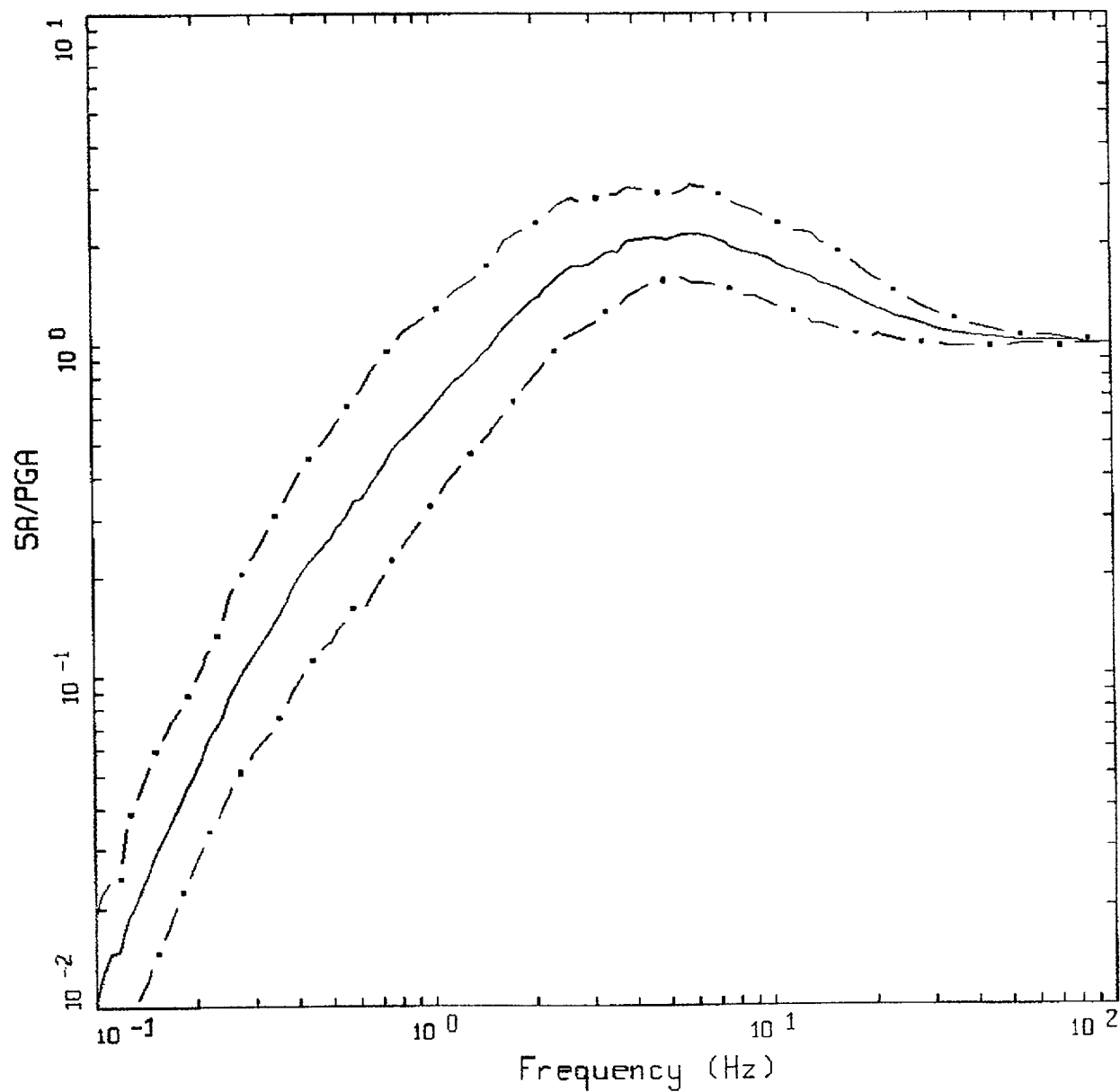
Figure C-6. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-10$ km, horizontal WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=10-50$ KM, ROCK
 AVERAGE $M = 5.57$, AVERAGE DISTANCE = 21.80 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

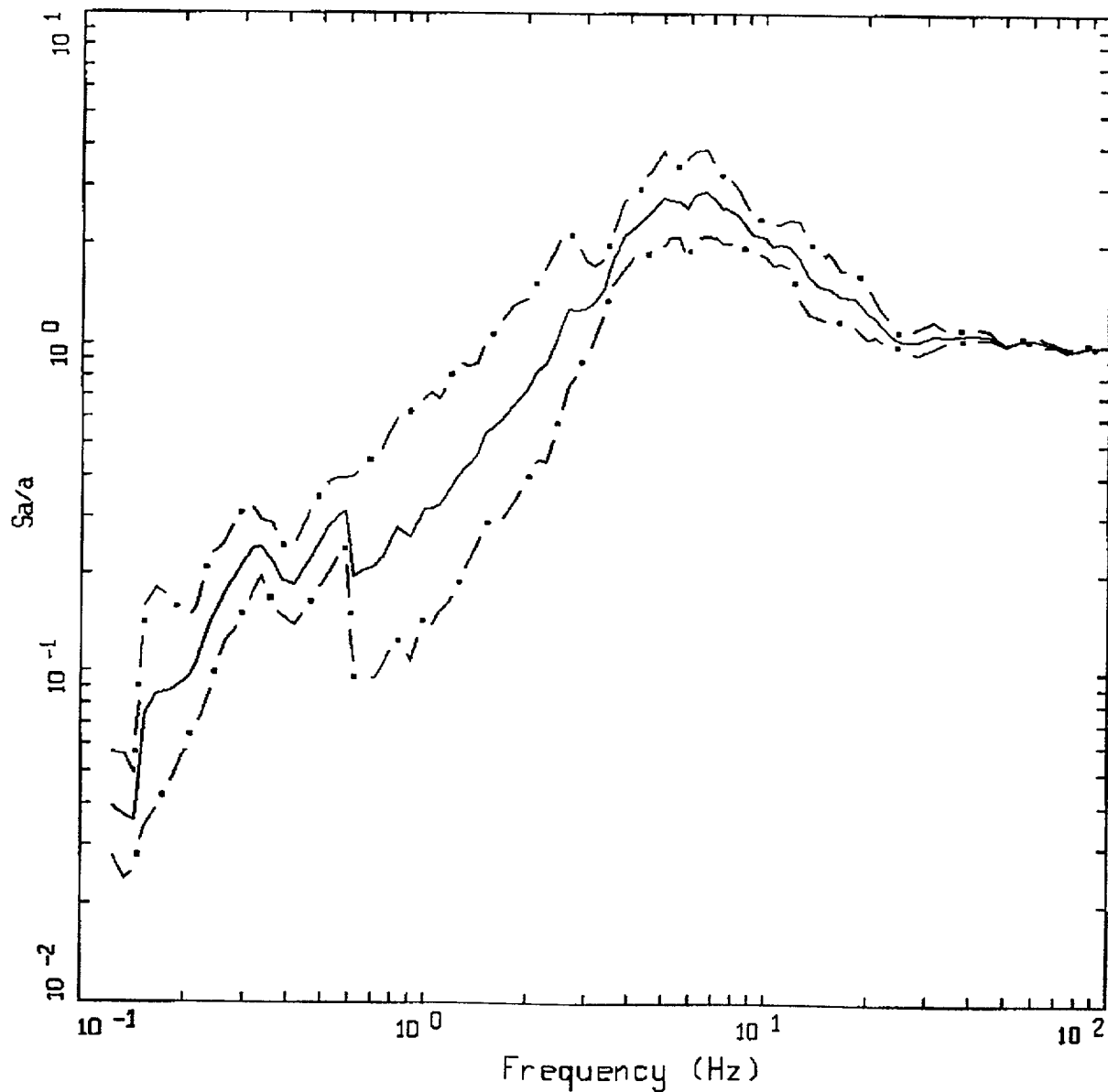
Figure C-7. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 10-50$ km, horizontal WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=10-50$ KM, ROCK
 AVERAGE $M = 6.43$, AVERAGE DISTANCE = 30.28 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

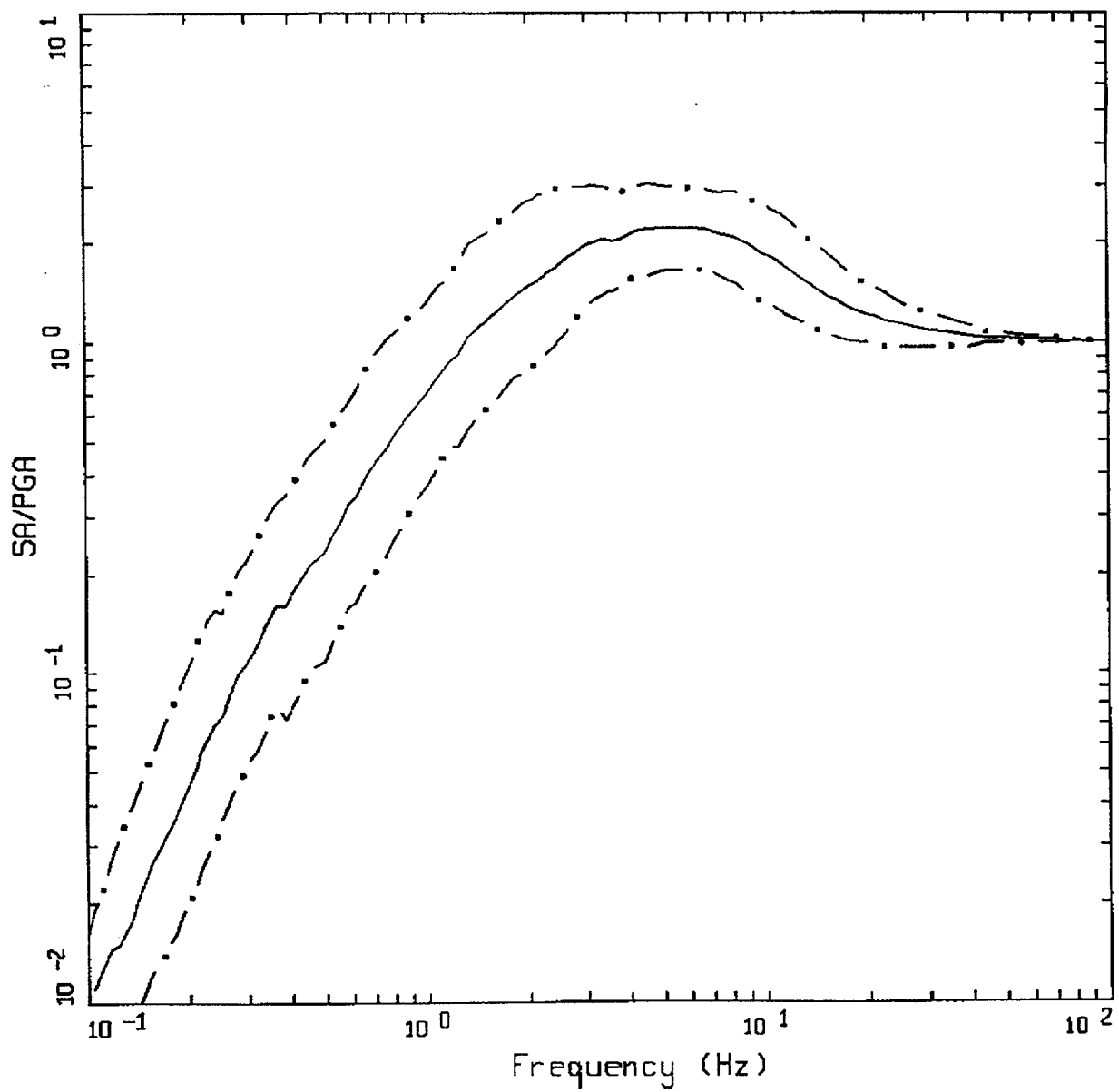
Figure C-8. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 10-50$ km, horizontal WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=10-50$ KM, ROCK
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 31.00 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

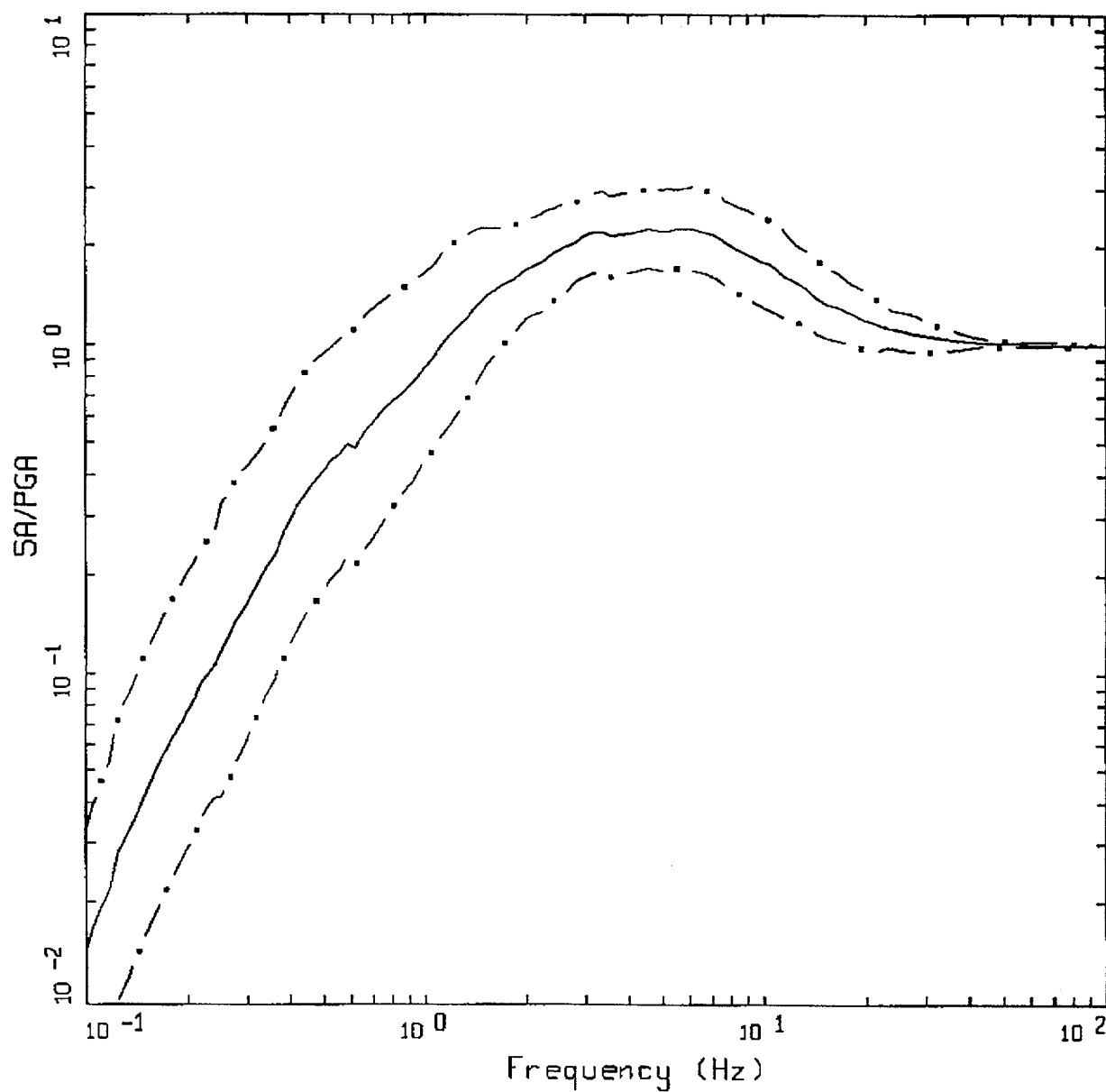
Figure C-9. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 10-50$ km, horizontal WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=10-50$ KM, SOIL
 AVERAGE $M = 5.69$, AVERAGE DISTANCE = 21.82 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

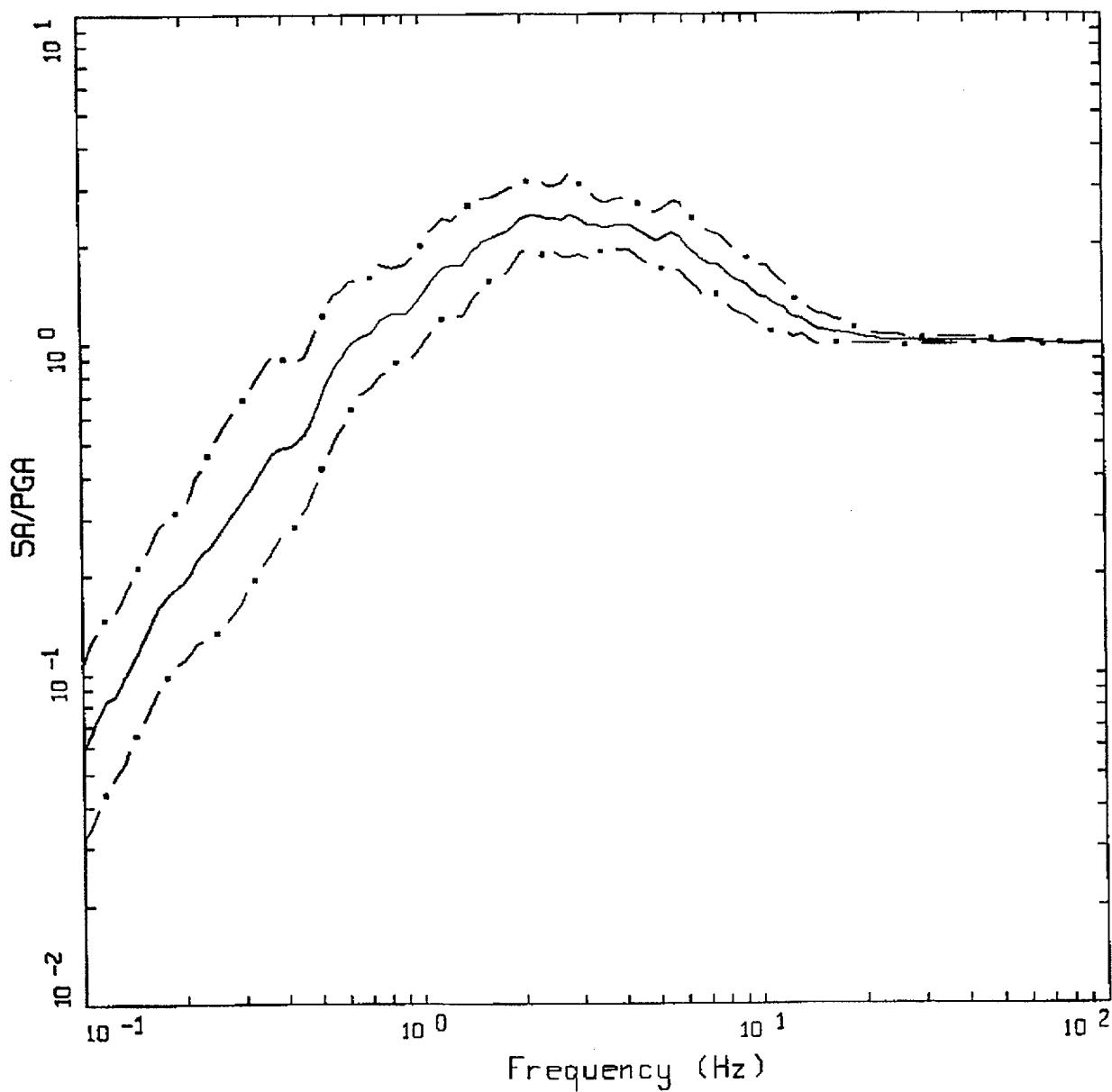
Figure C-10. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 10-50$ km, horizontal WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=10-50$ KM, SOIL
 AVERAGE $M = 6.35$, AVERAGE DISTANCE = 28.27 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

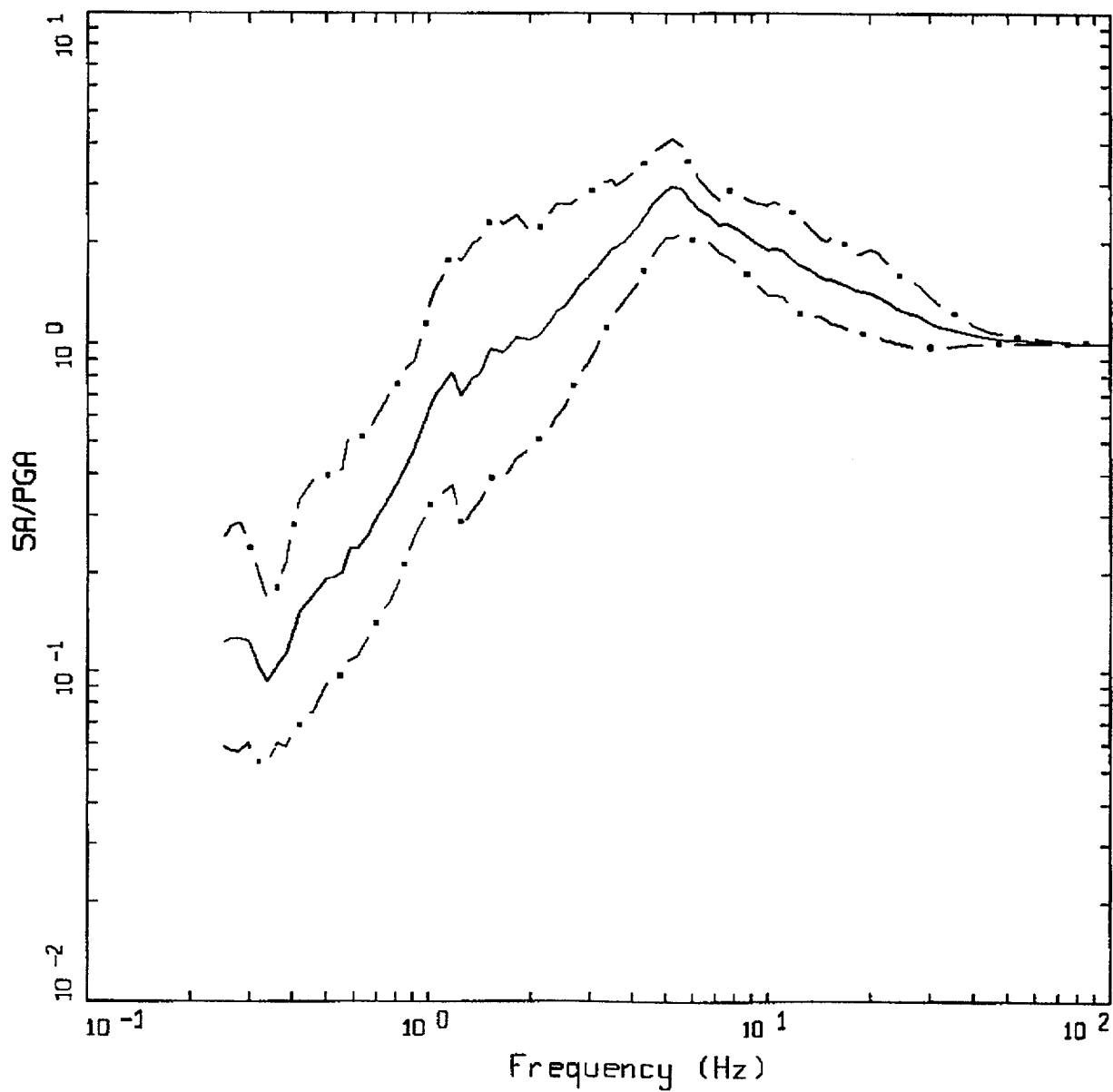
Figure C-11. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 10-50$ km, horizontal WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=10-50$ KM, SOIL
 AVERAGE $M = 7.29$, AVERAGE DISTANCE = 33.46 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

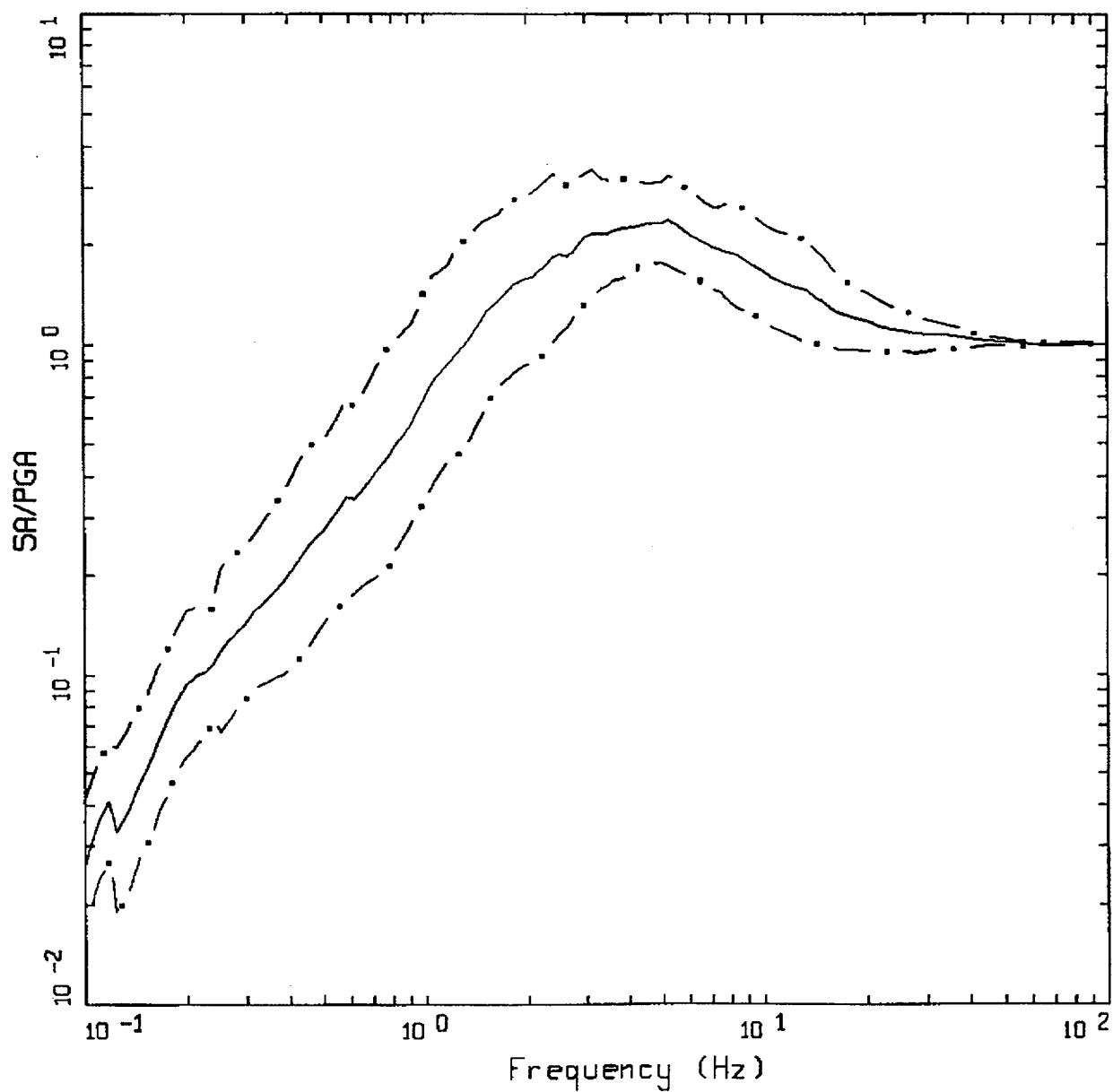
Figure C-12. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 10-50$ km, horizontal WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=50-100$ KM, ROCK
 AVERAGE $M = 5.91$, AVERAGE DISTANCE = 64.27 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

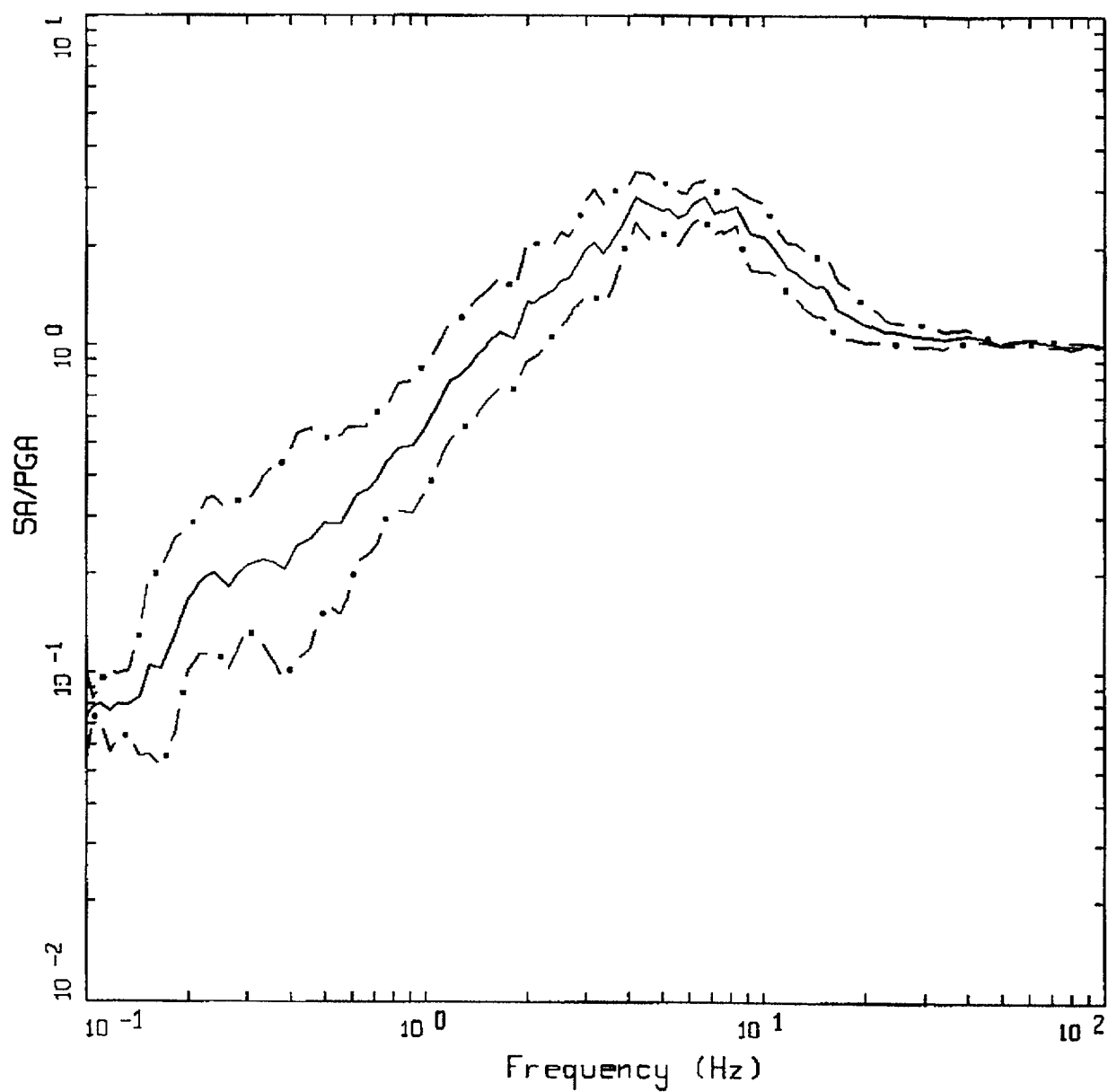
Figure C-13. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 50-100$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=50-100$ KM, ROCK
 AVERAGE $M = 6.51$, AVERAGE DISTANCE = 70.35 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

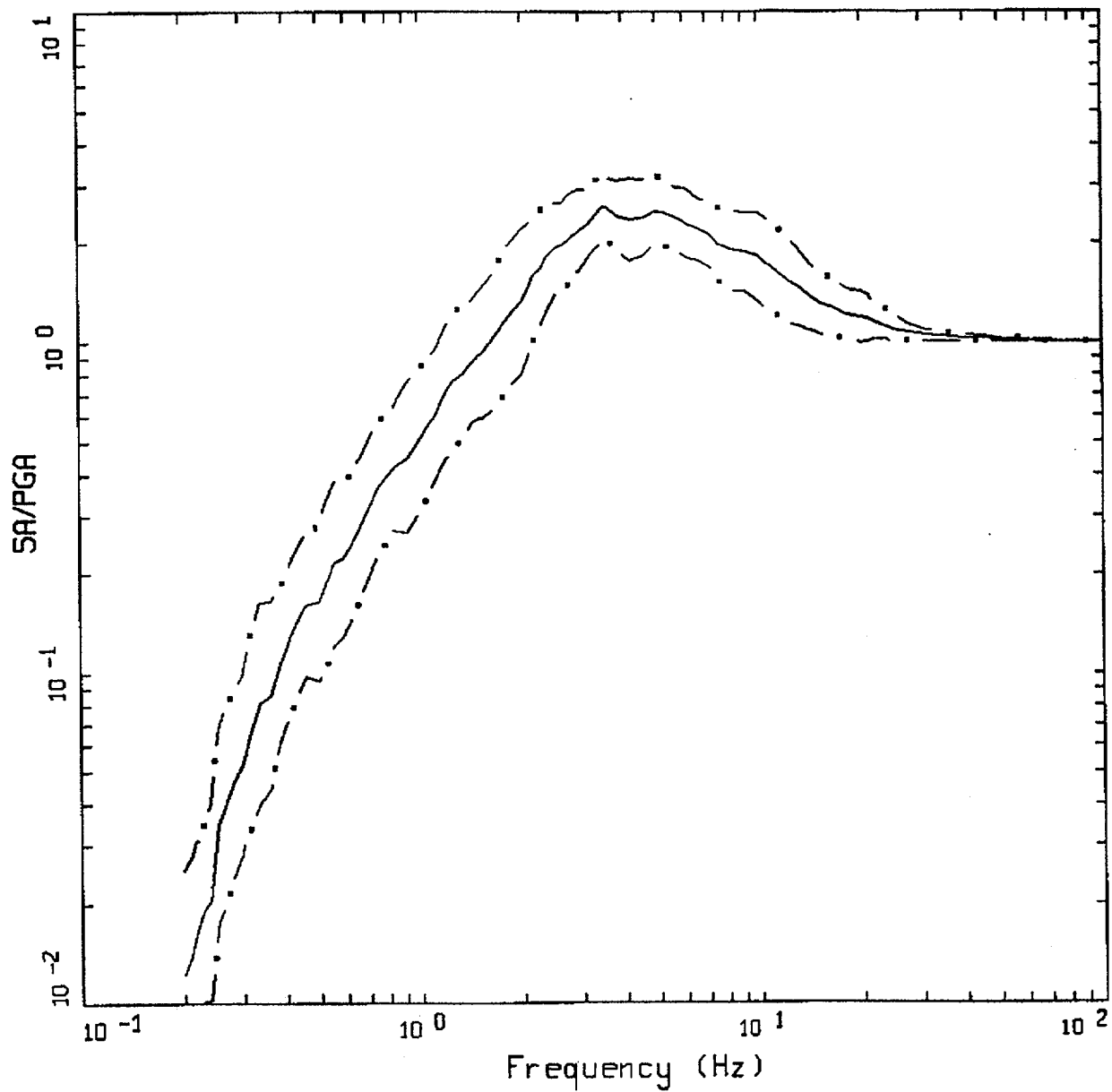
Figure C-14. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 50-100$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=50-100$ KM, ROCK
 AVERAGE $M = 7.32$, AVERAGE DISTANCE = 81.46 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

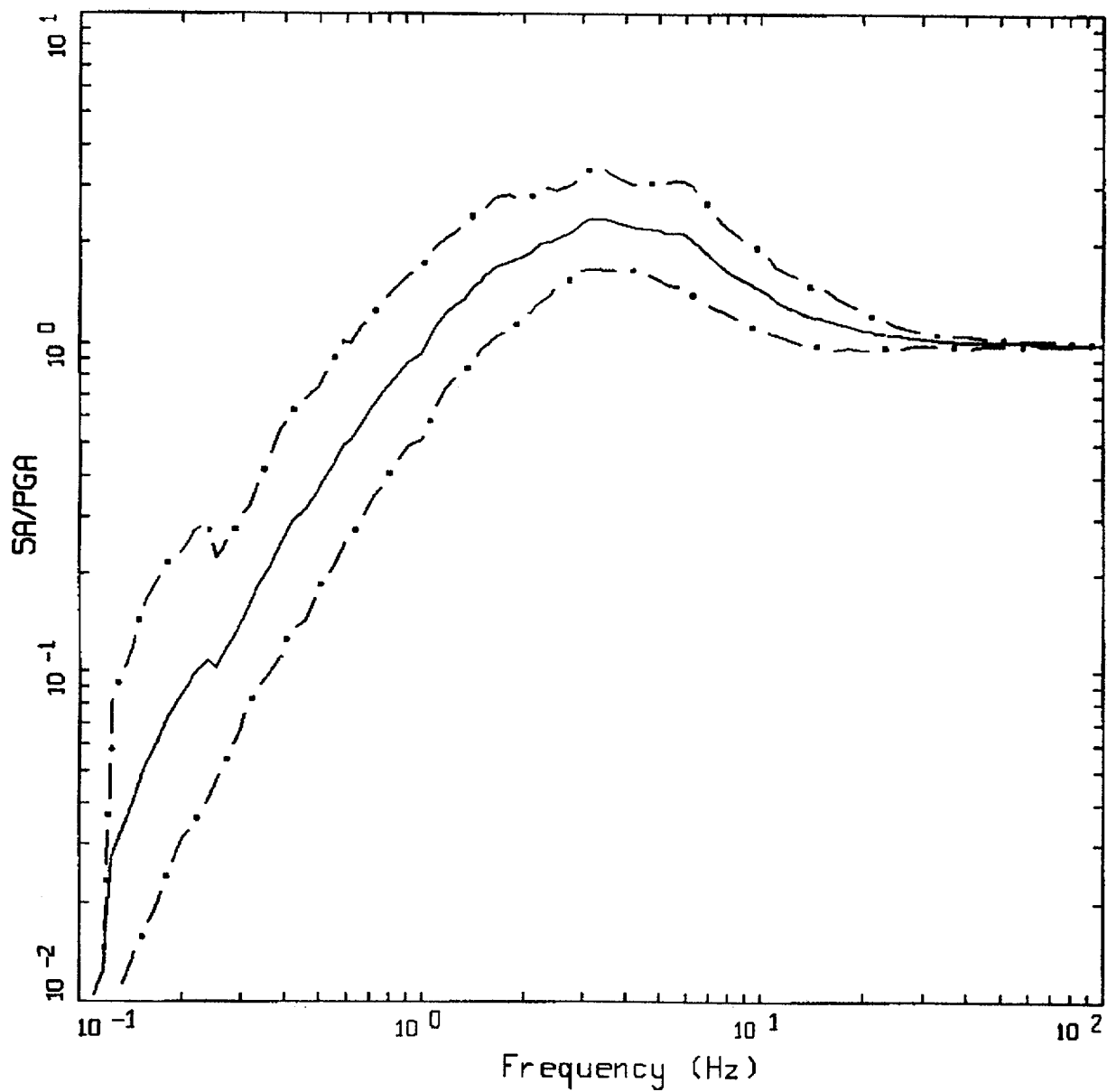
Figure C-15. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 50-100$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=50-100$ KM, SOIL
 AVERAGE $M = 5.80$, AVERAGE DISTANCE = 67.22 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

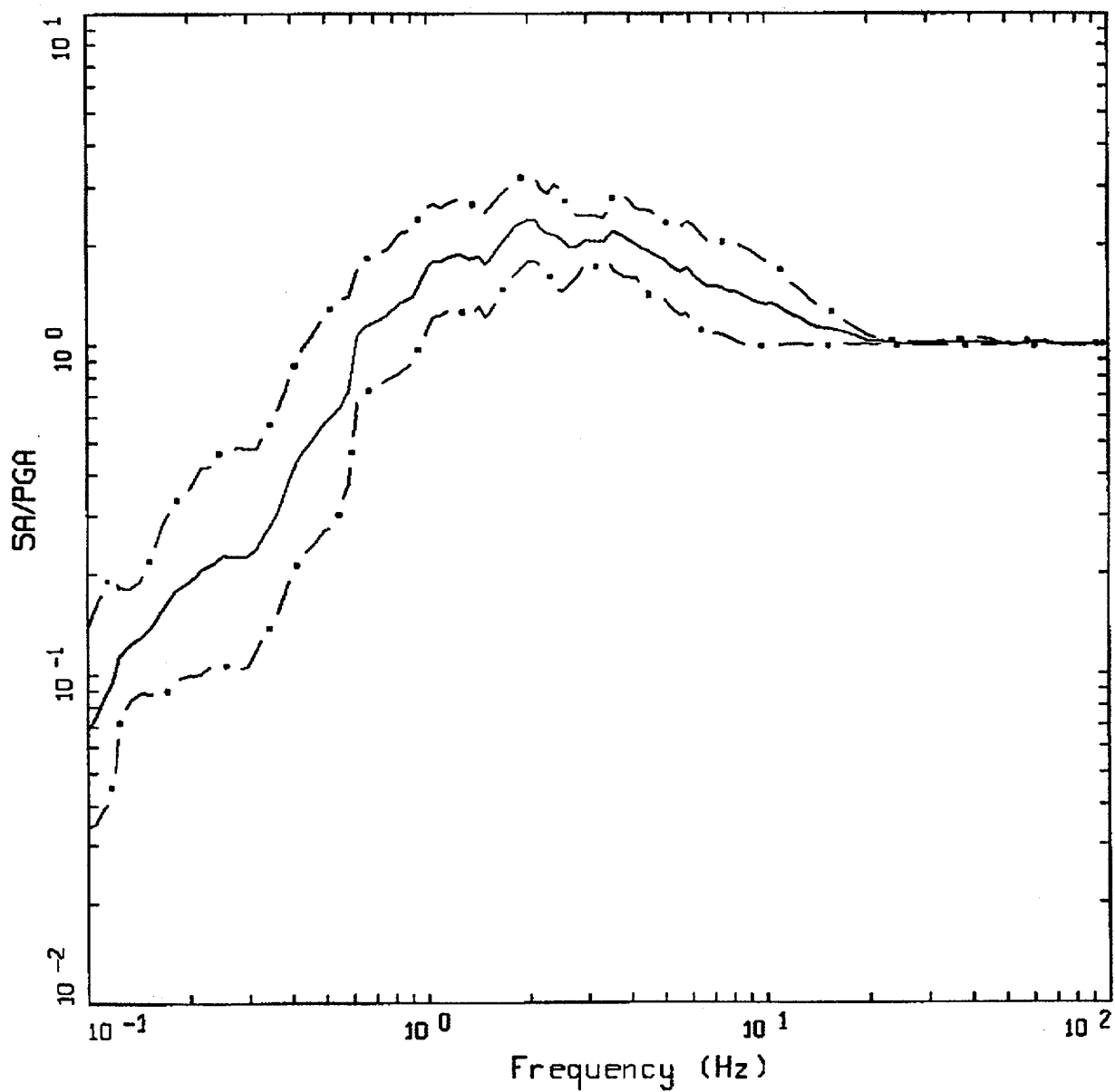
Figure C-16. Median $\pm 1 \sigma$ spectral shapes for $M \sim 5.5$, $R = 50-100$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=50-100$ KM, SOIL
 AVERAGE $M = 6.49$, AVERAGE DISTANCE = 67.34 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

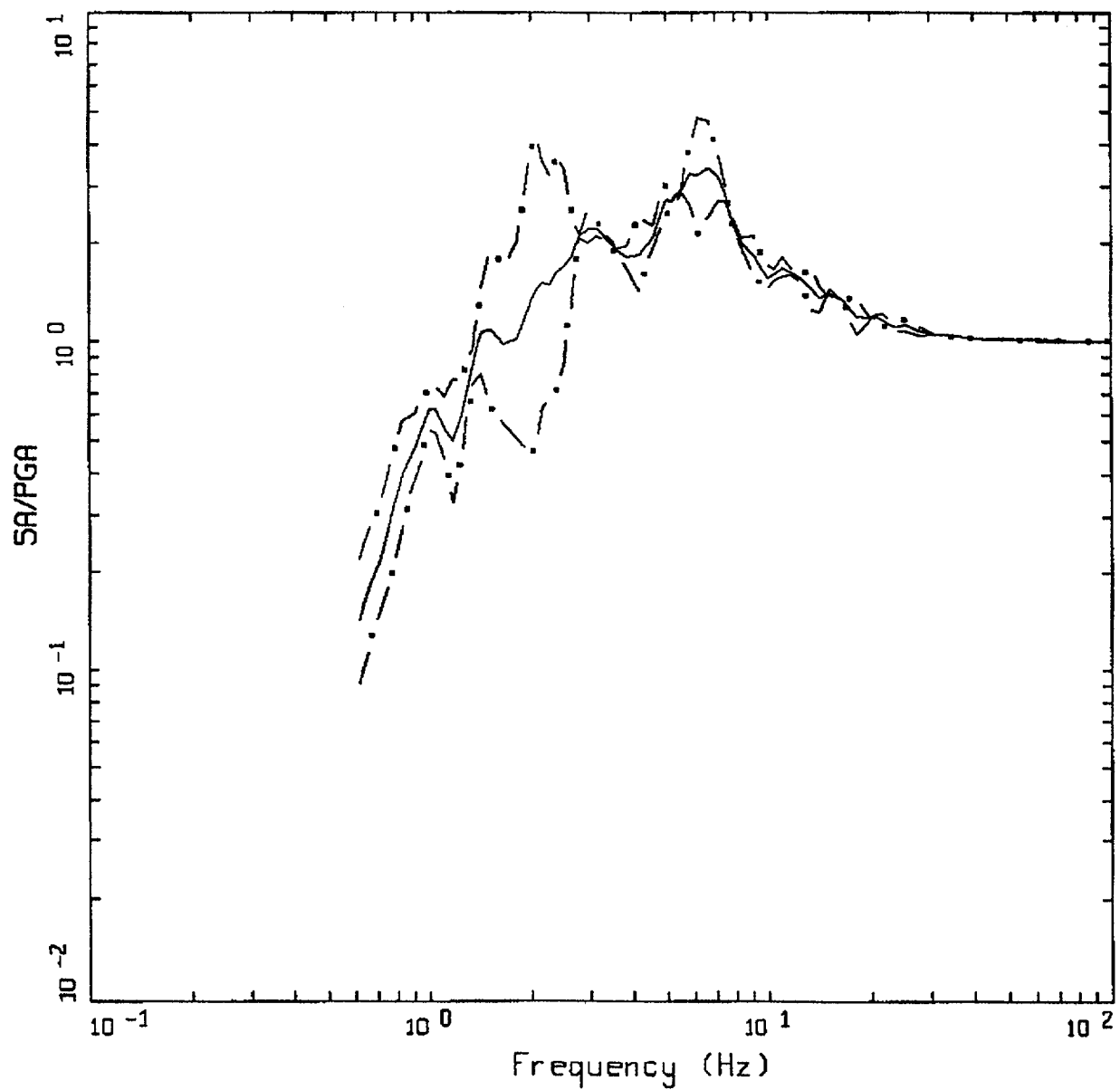
Figure C-17. Median $\pm 1 \sigma$ spectral shapes for $M = 6.5$, $R = 50-100$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=50-100$ KM, SOIL
 AVERAGE $M = 7.31$, AVERAGE DISTANCE = 76.57 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

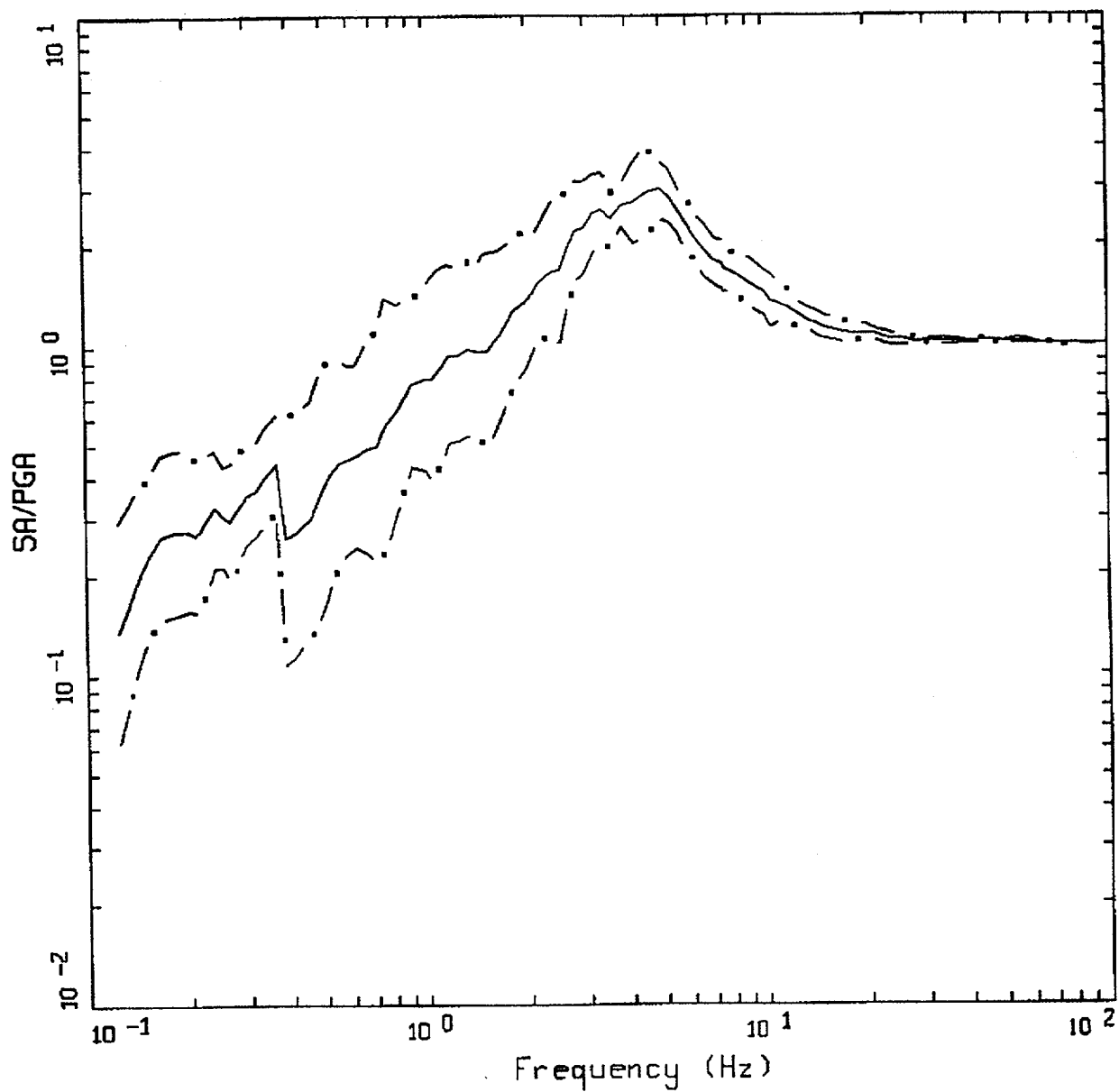
Figure C-18. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 50-100$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=100-200$ KM, ROCK
 AVERAGE $M = 5.40$, AVERAGE DISTANCE = 107.80 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

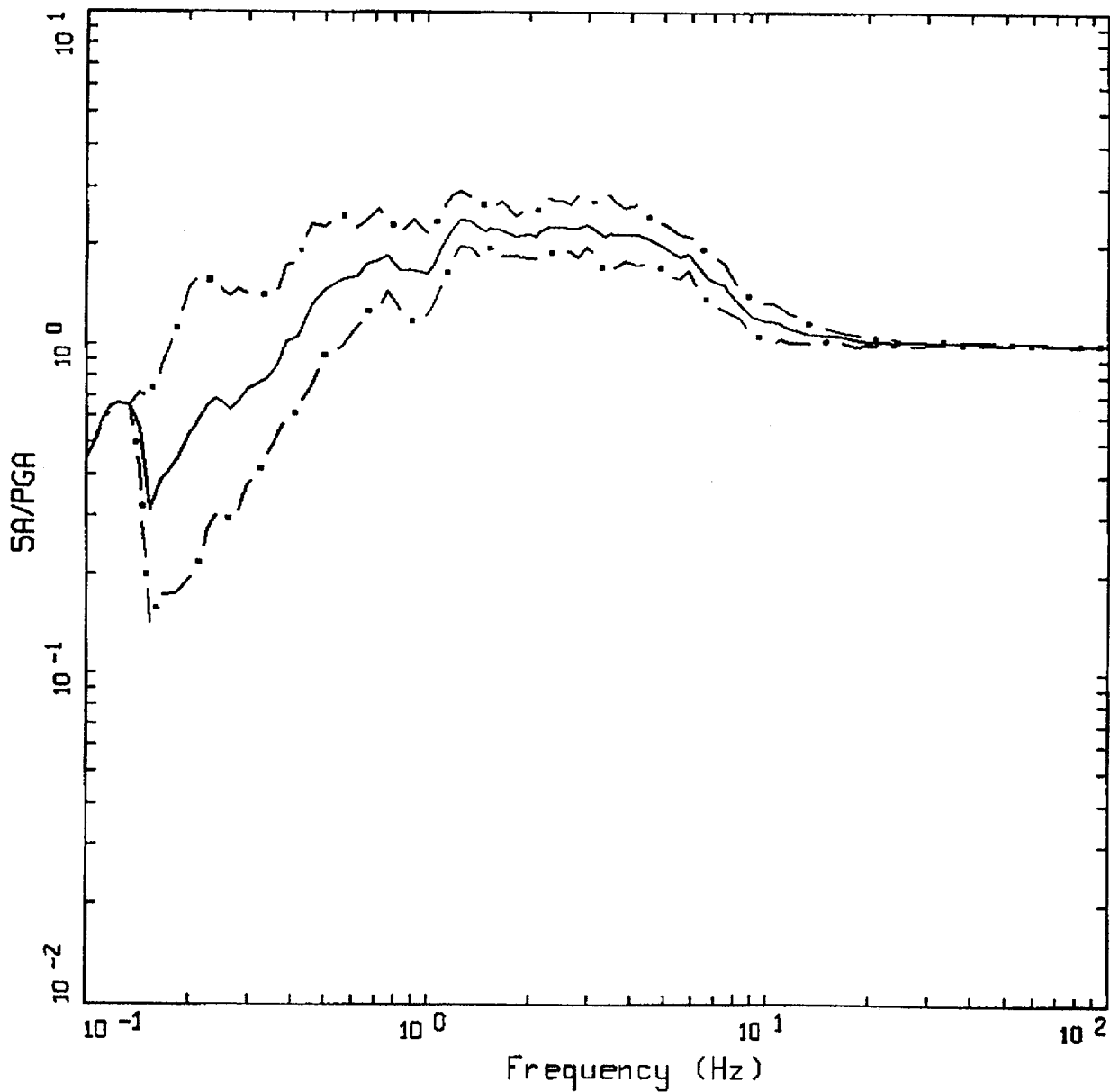
Figure C-19. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 100-200$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=100-200$ KM, ROCK
 AVERAGE $M = 6.64$, AVERAGE DISTANCE = 114.57 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

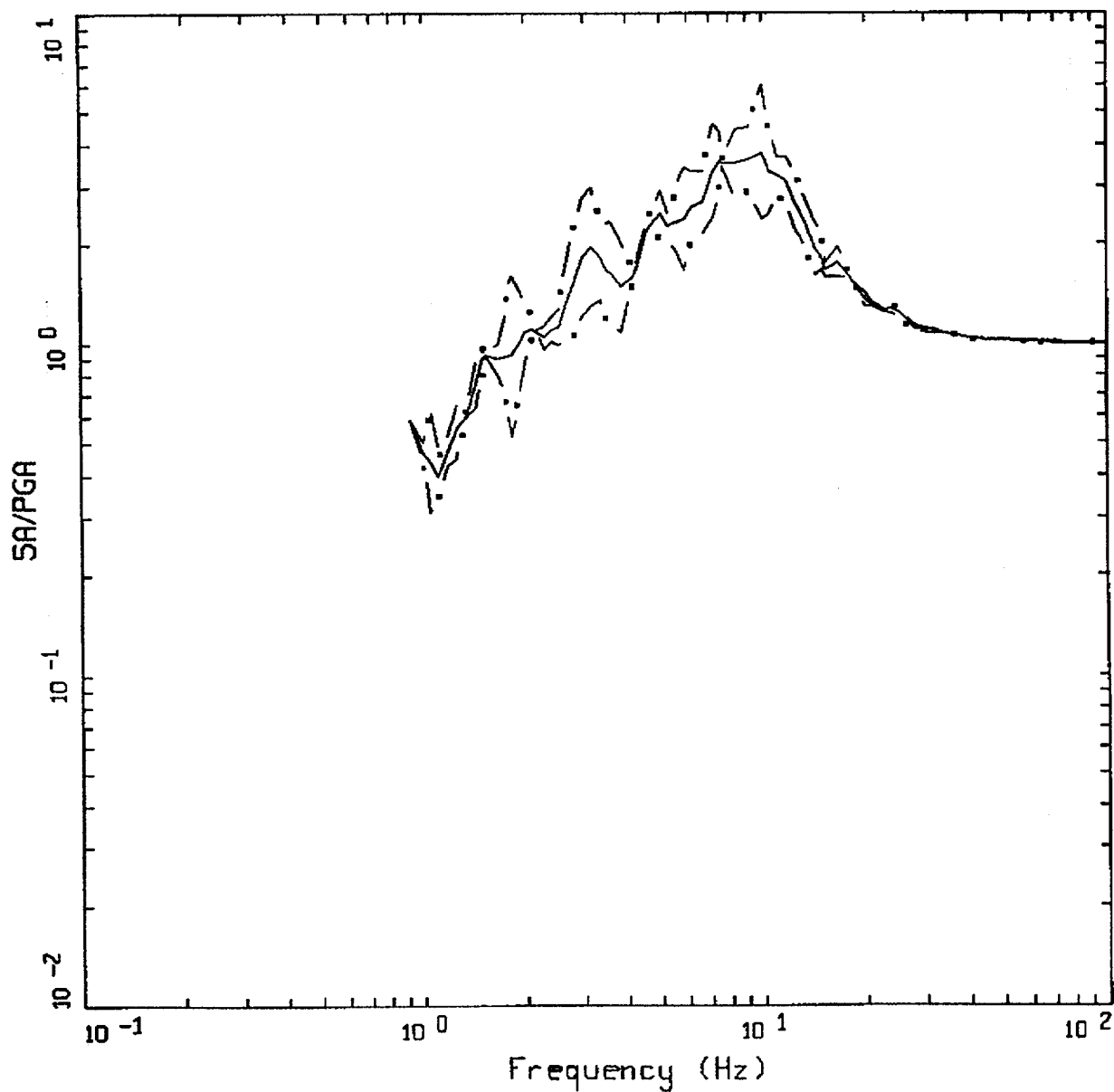
Figure C-20. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 100-200$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=100-200$ KM, ROCK
 AVERAGE $M = 7.30$, AVERAGE DISTANCE = 152.01 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

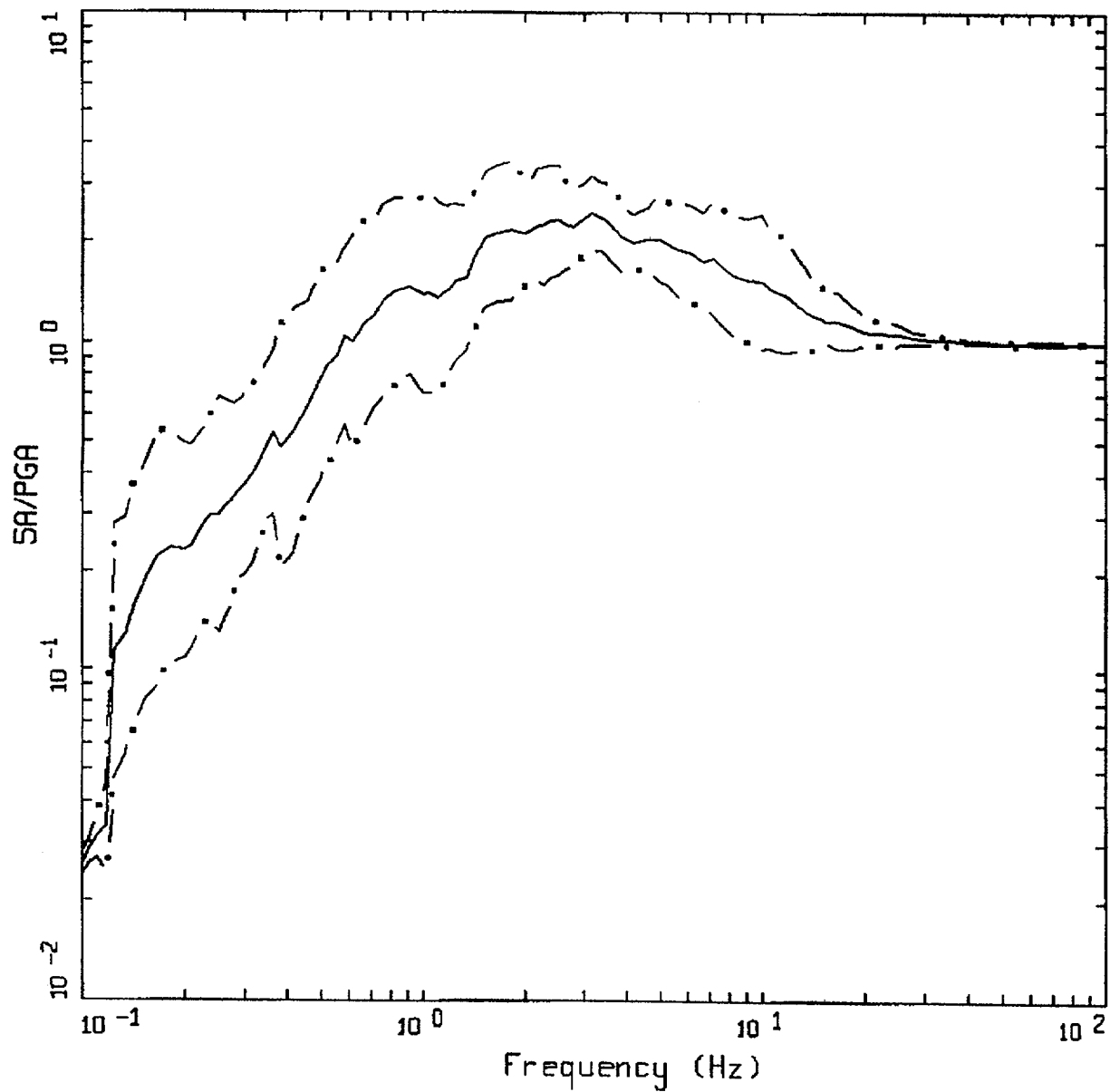
Figure C-21. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 100-200$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=100-200$ KM, SOIL
 AVERAGE $M = 6.0$, AVERAGE DISTANCE = 105.00 KM

LEGEND
 — 50TH PERCENTILE
 - • - 16TH PERCENTILE
 - • - 84TH PERCENTILE

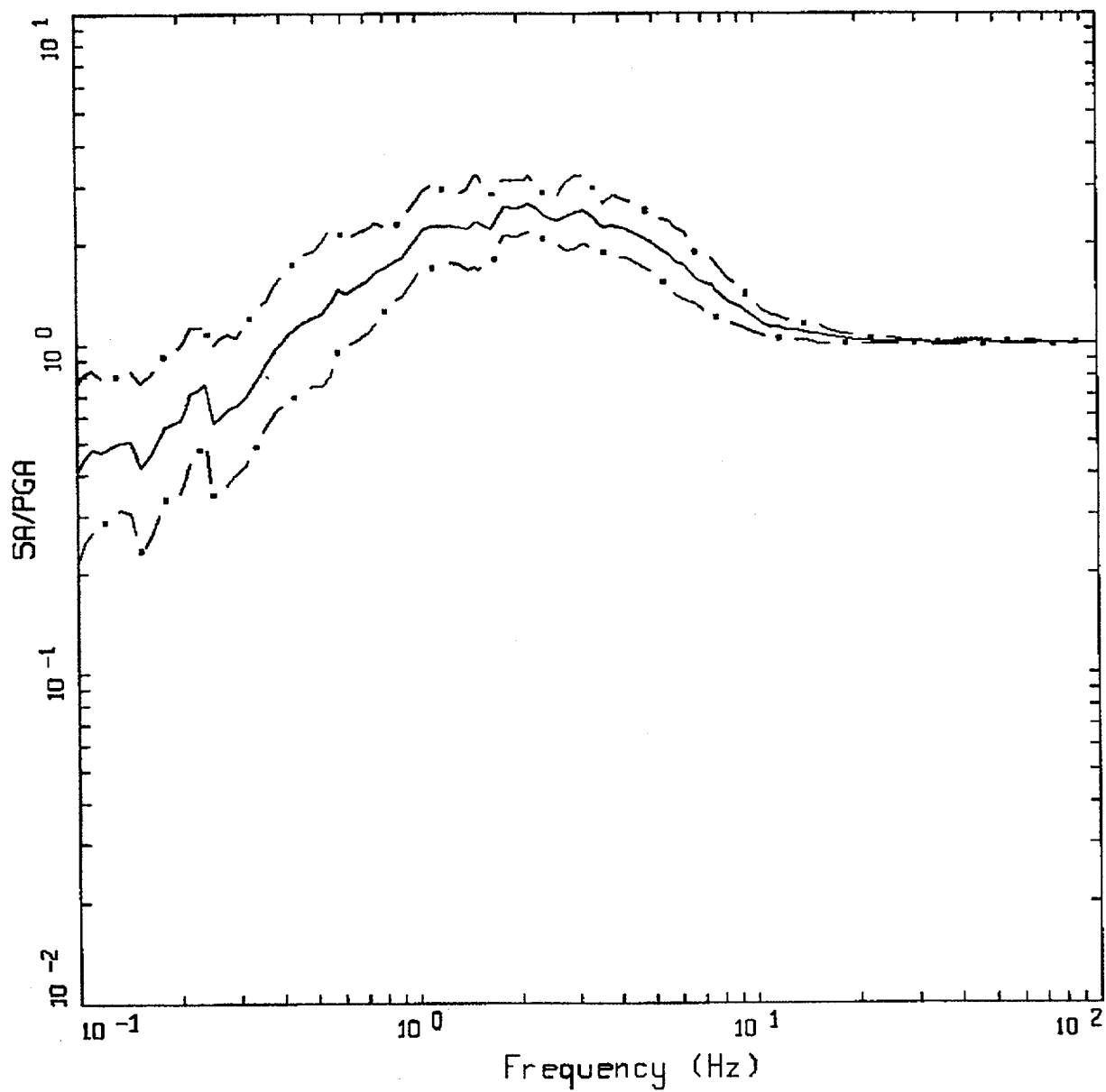
Figure C-22. Median $\pm 1 \sigma$ spectral shapes for $M \sim 5.5$, $R = 100-200$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=100-200$ KM, SOIL
 AVERAGE $M = 6.64$, AVERAGE DISTANCE = 132.97 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 . . . 84TH PERCENTILE

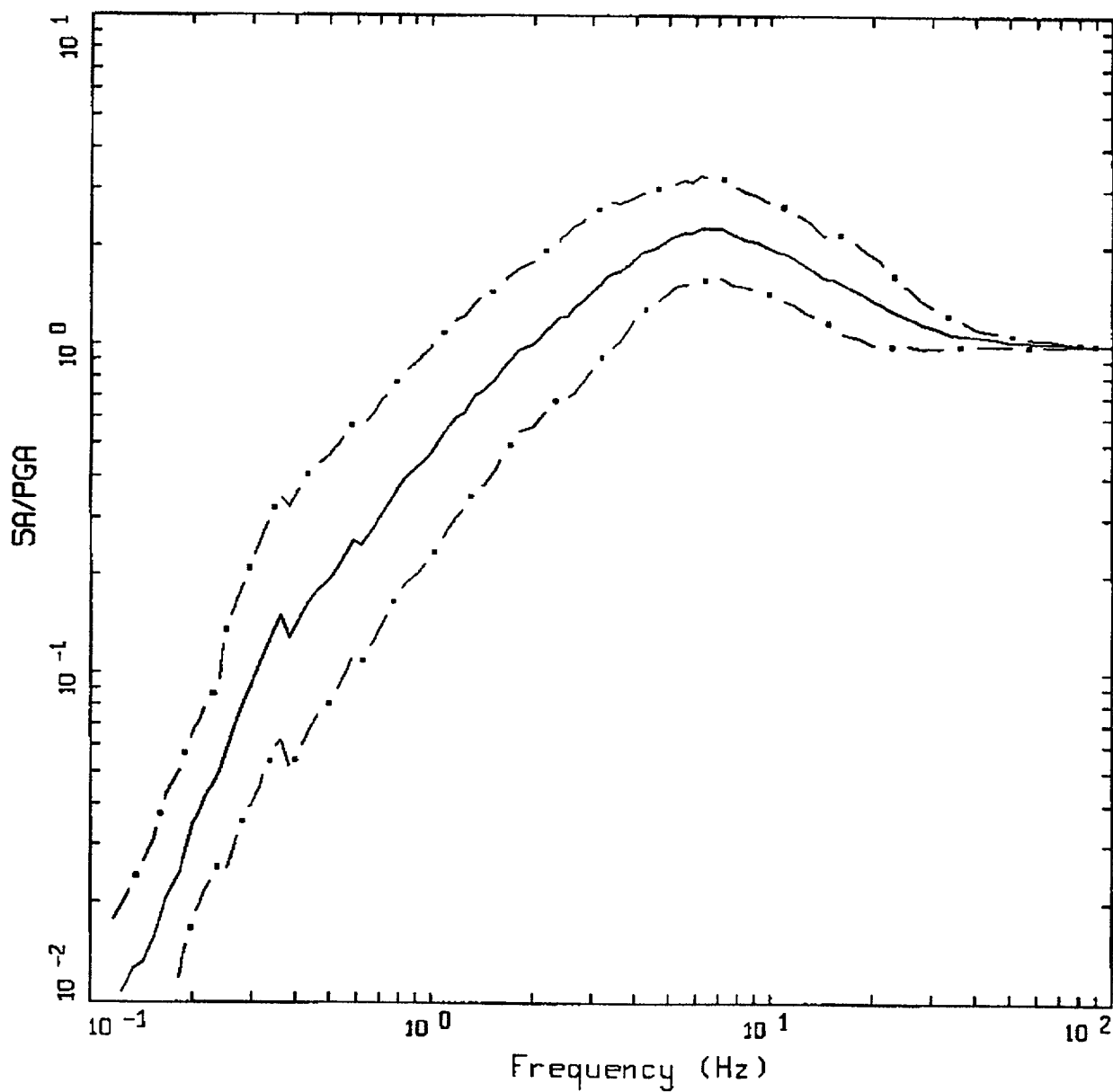
Figure C-23. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 100-200$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=100-200$ KM, SOIL
 AVERAGE $M = 7.31$, AVERAGE DISTANCE = 147.07 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

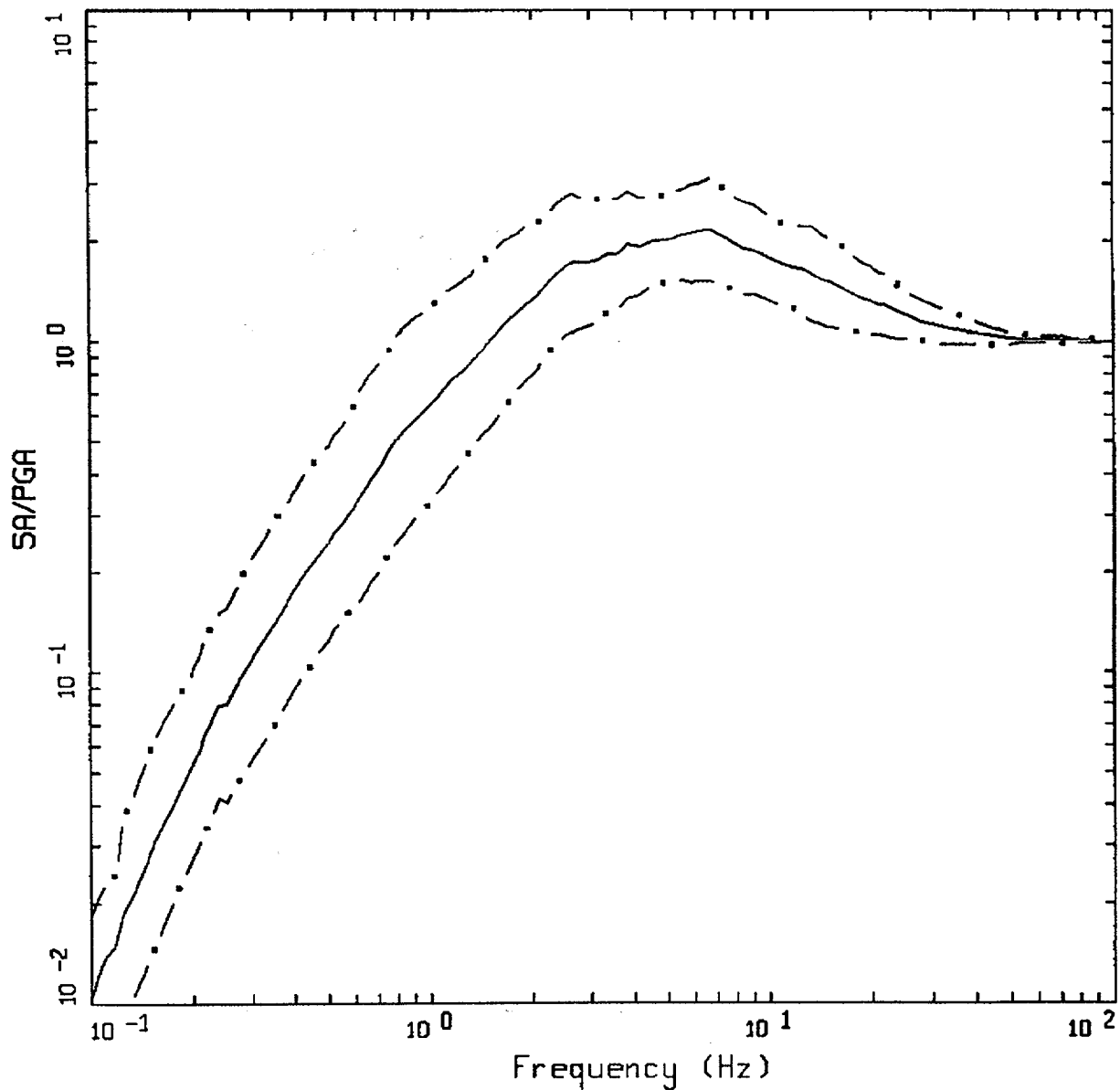
Figure C-24. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 100-200$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-50$ KM, ROCK
 AVERAGE $M = 5.57$, AVERAGE DISTANCE = 19.91 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

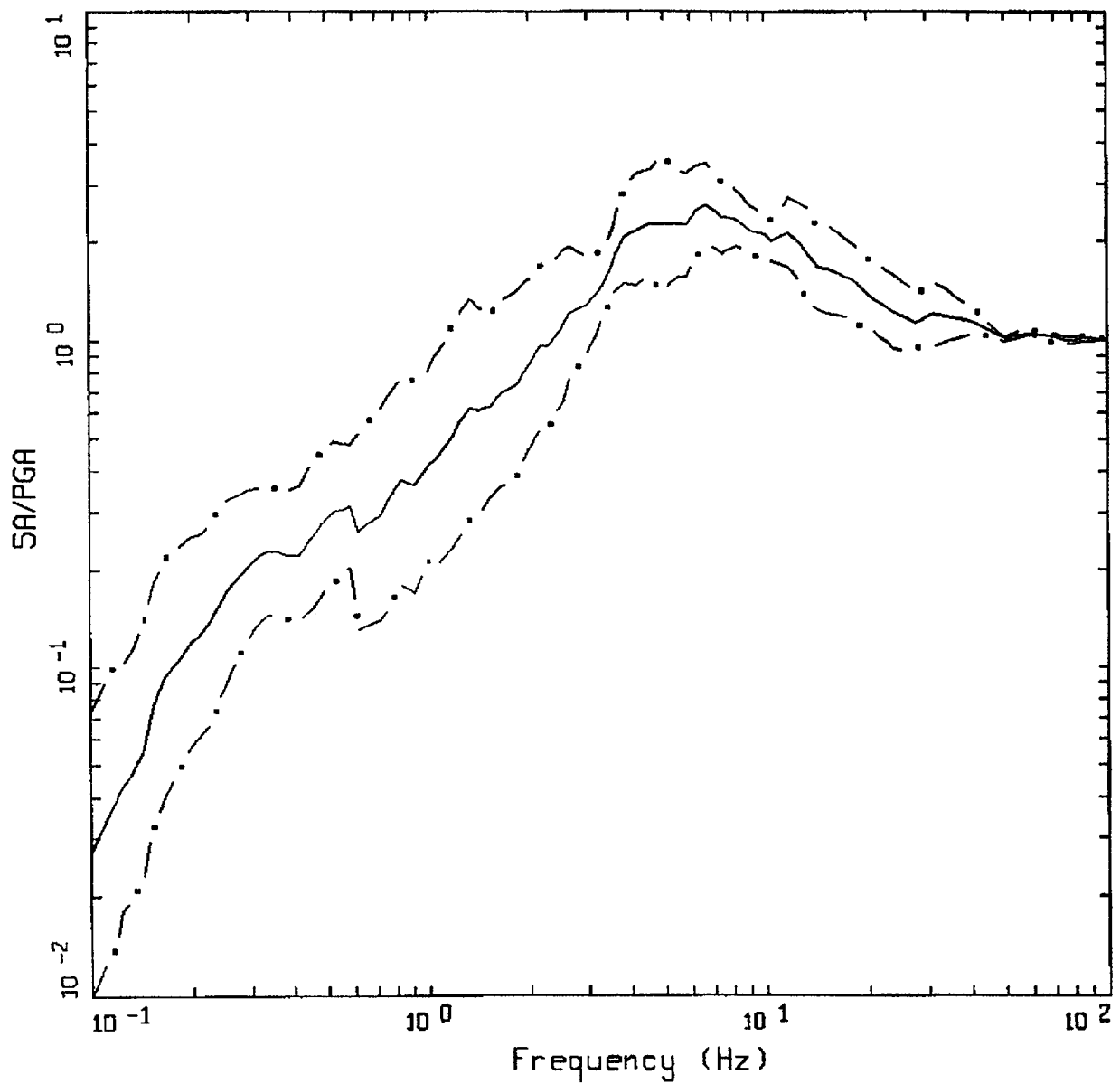
Figure C-25. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-50$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-50$ KM, ROCK
 AVERAGE $M = 6.44$, AVERAGE DISTANCE = 27.39 KM

LEGEND
 — 50TH PERCENTILE
 - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

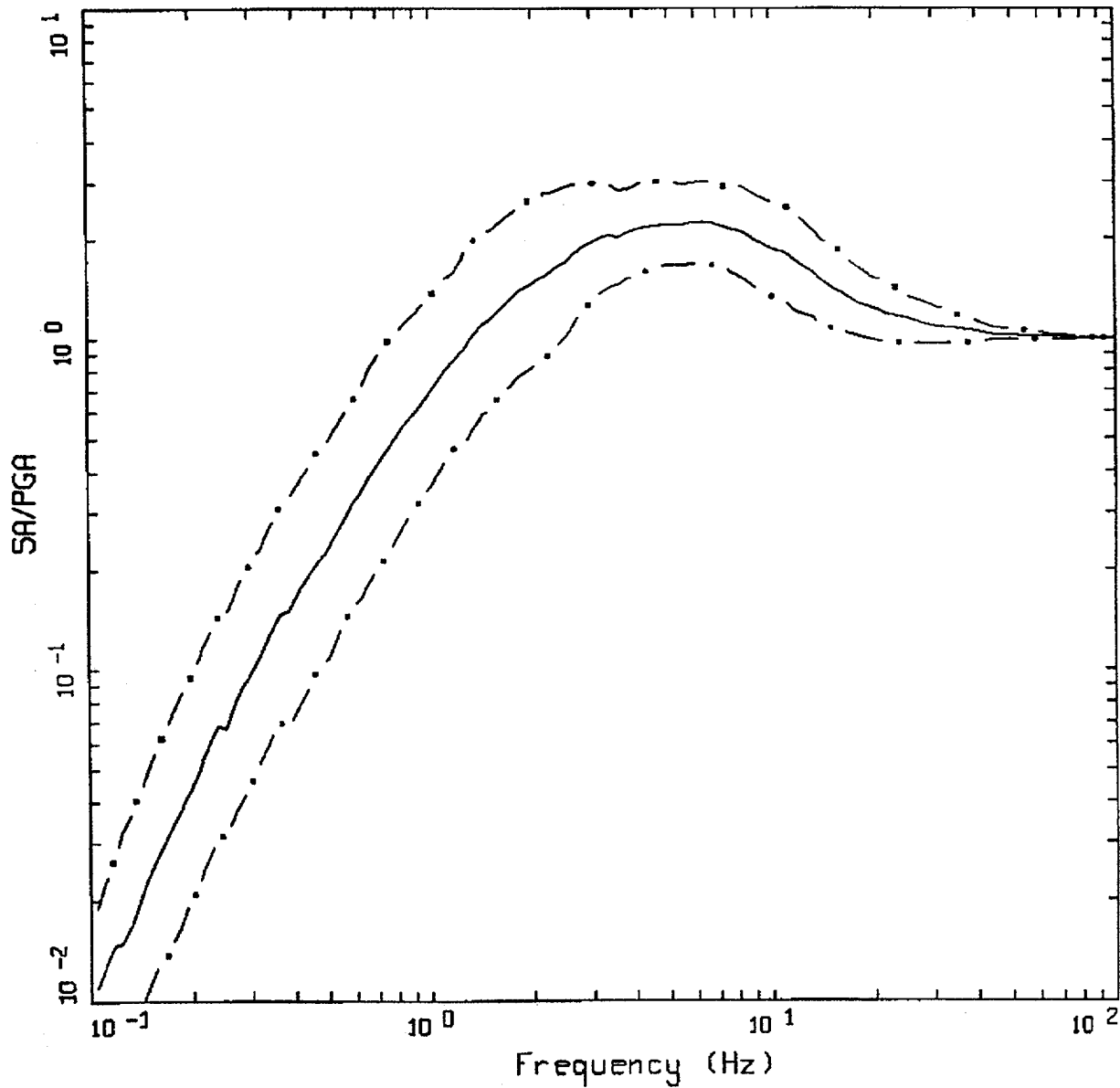
Figure C-26. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-50$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=0-50$ KM, ROCK
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 17.60 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

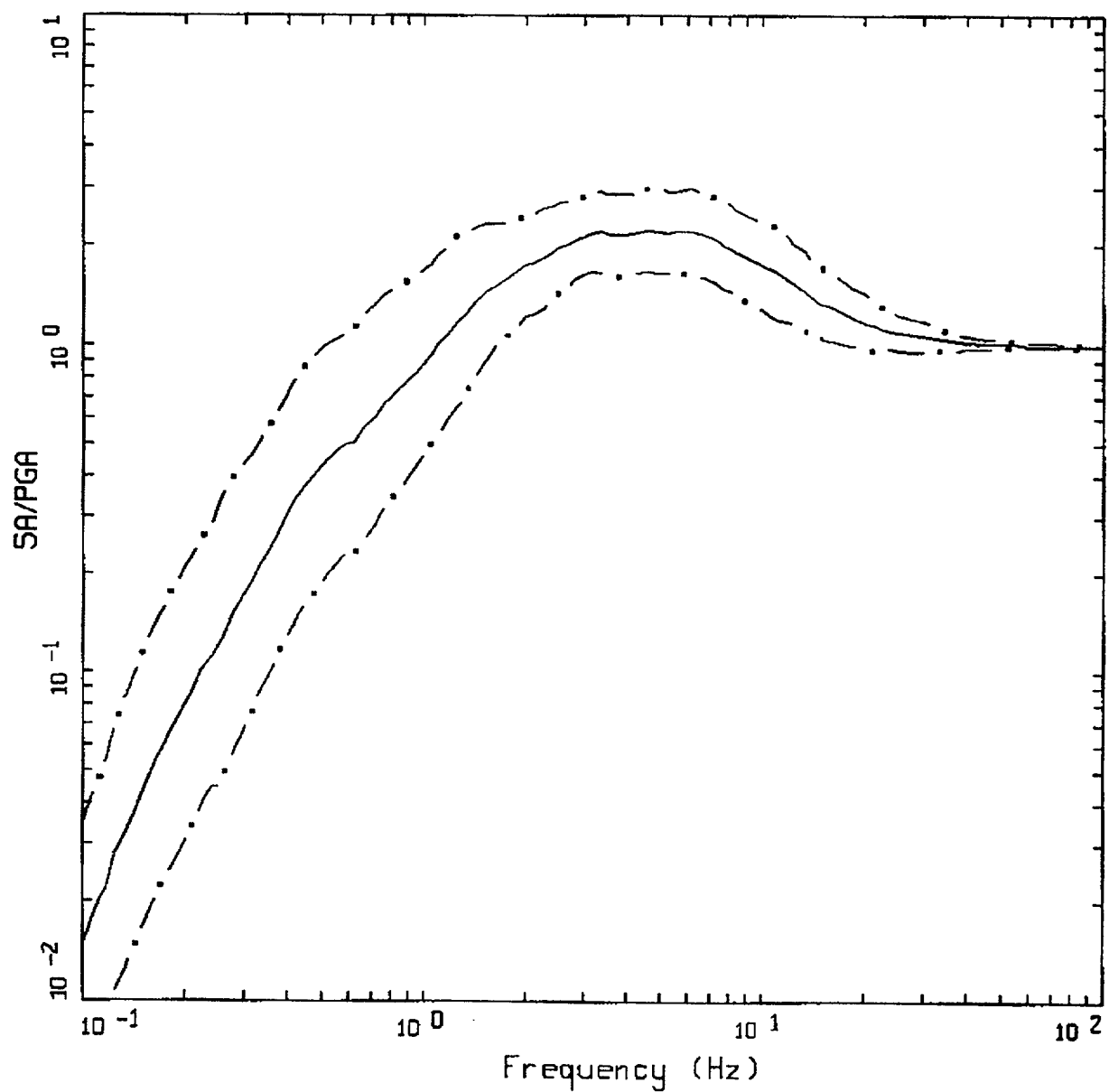
Figure C-27. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-50$ km, horizontal, WUS rock.



AVERAGE HORIZONTAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-50$ KM, SOIL
 AVERAGE $M = 5.69$, AVERAGE DISTANCE = 21.10 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

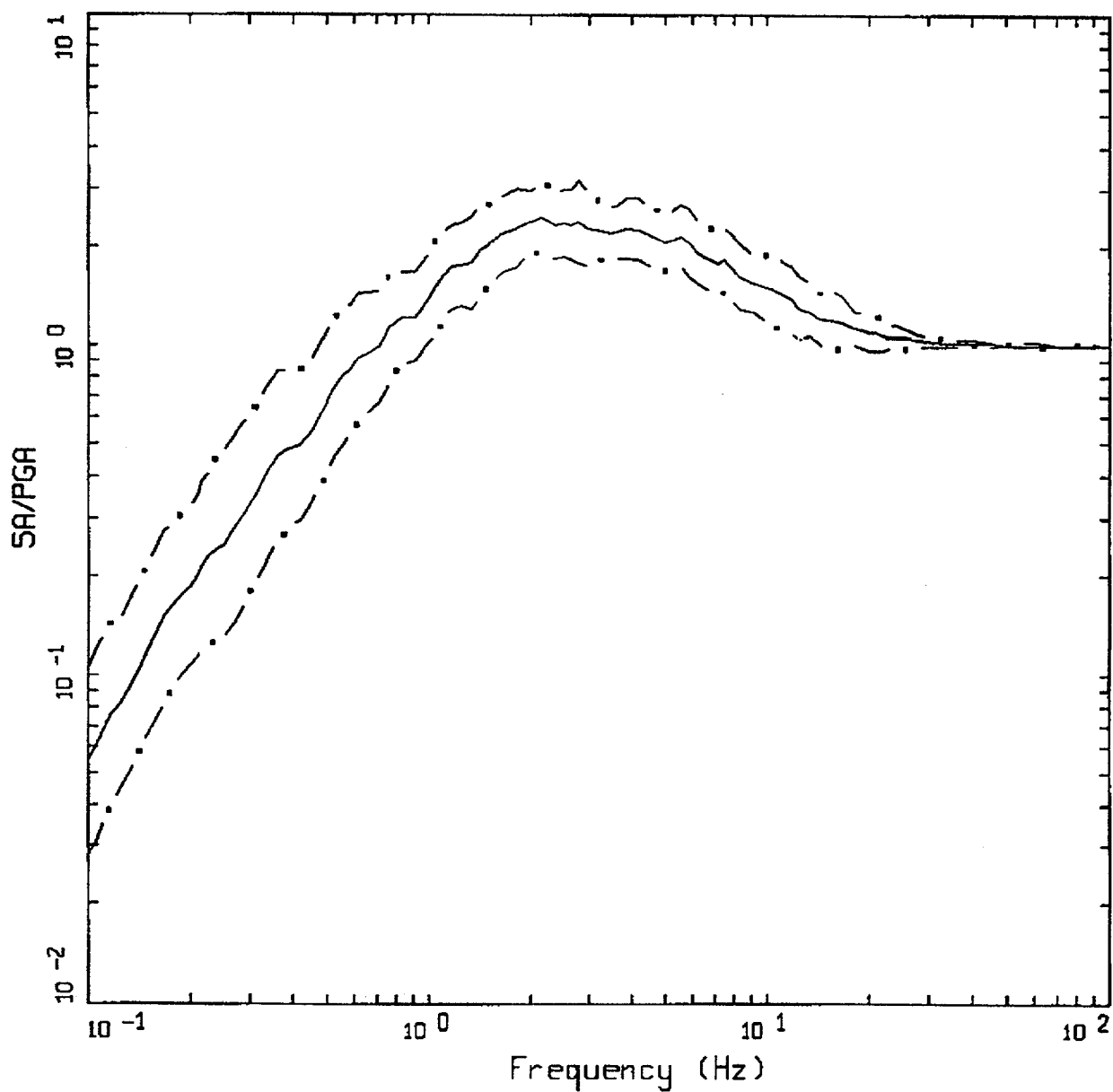
Figure C-28. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-50$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-50$ KM, SOIL
 AVERAGE $M = 6.37$, AVERAGE DISTANCE = 25.50 KM

LEGEND
 — 50TH PERCENTILE
 - · - 16TH PERCENTILE
 - · - 84TH PERCENTILE

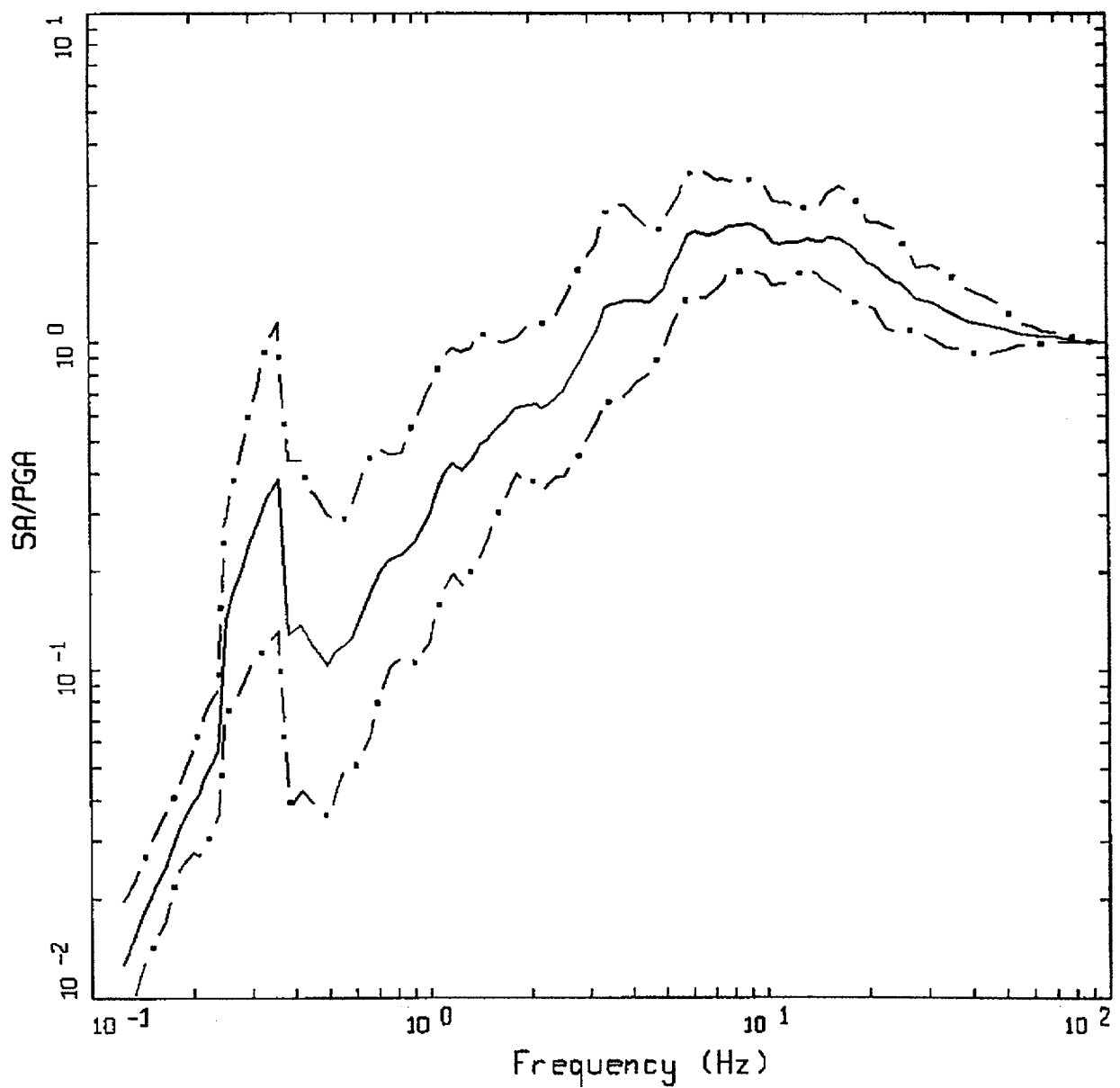
Figure C-29. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-50$ km, horizontal, WUS soil.



AVERAGE HORIZONTAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=0-50$ KM, SOIL
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 31.82 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

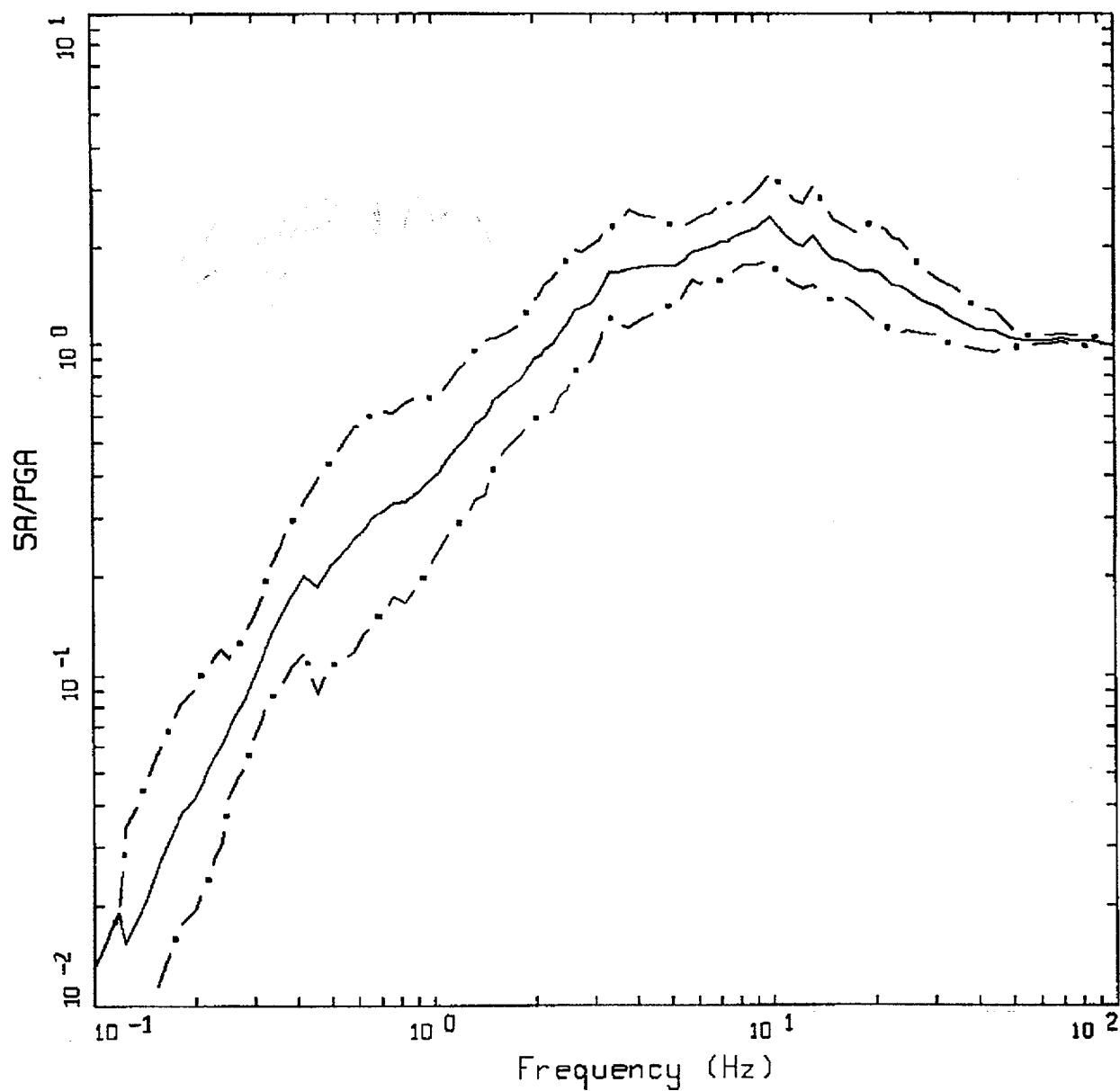
Figure C-30. Median $\pm 1 \sigma$ spectral shapes for $M = 7.5$, $R = 0-50$ km, horizontal, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-10$ KM, ROCK
 AVERAGE $M = 5.54$, AVERAGE DISTANCE = 7.91 KM

LEGEND
 — 50TH PERCENTILE
 - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

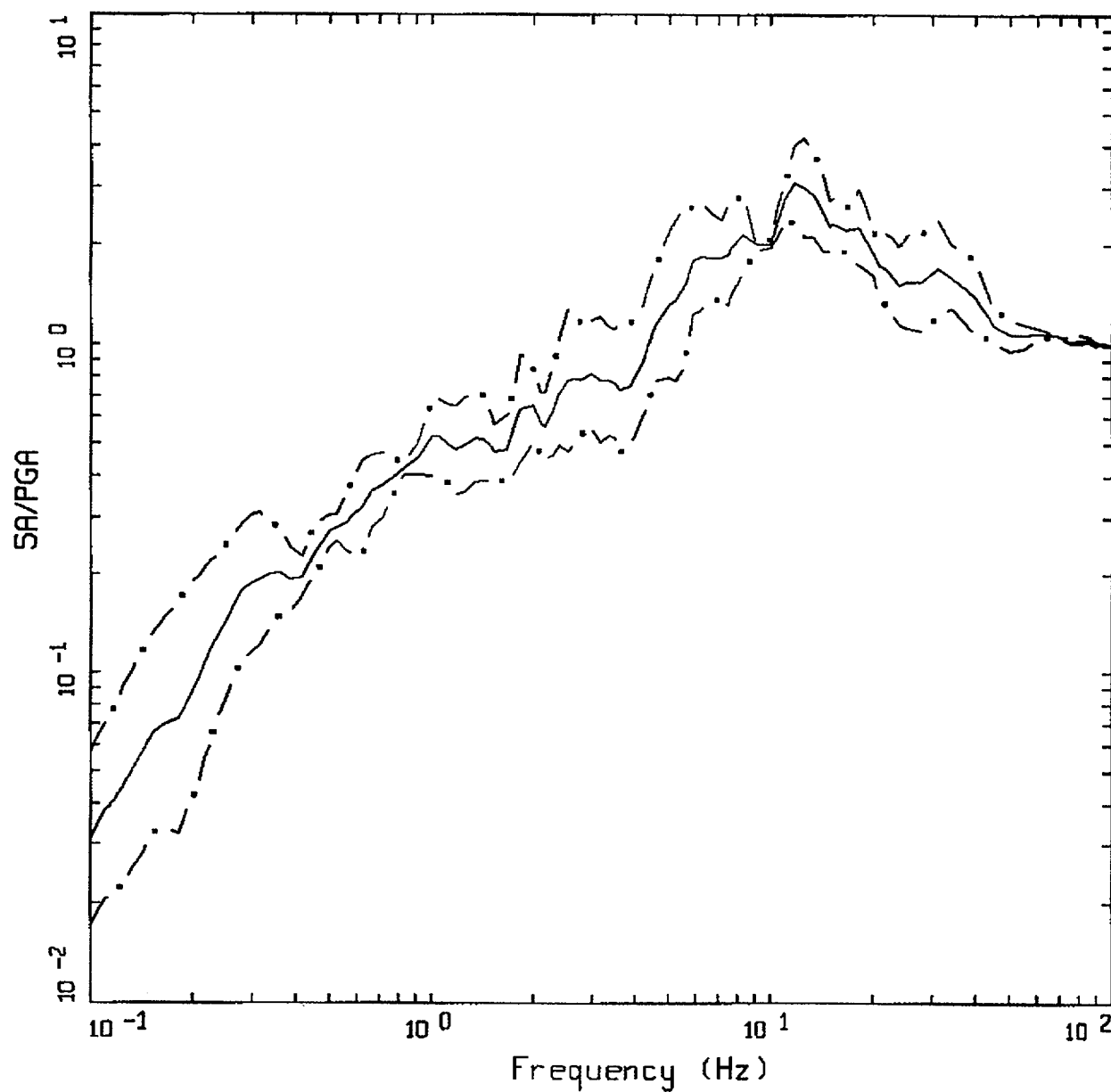
Figure C-31. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-10$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-10$ KM, ROCK
 AVERAGE $M = 6.53$, AVERAGE DISTANCE = 5.75 KM

LEGEND
 — 50TH PERCENTILE
 - · - 16TH PERCENTILE
 - · - 84TH PERCENTILE

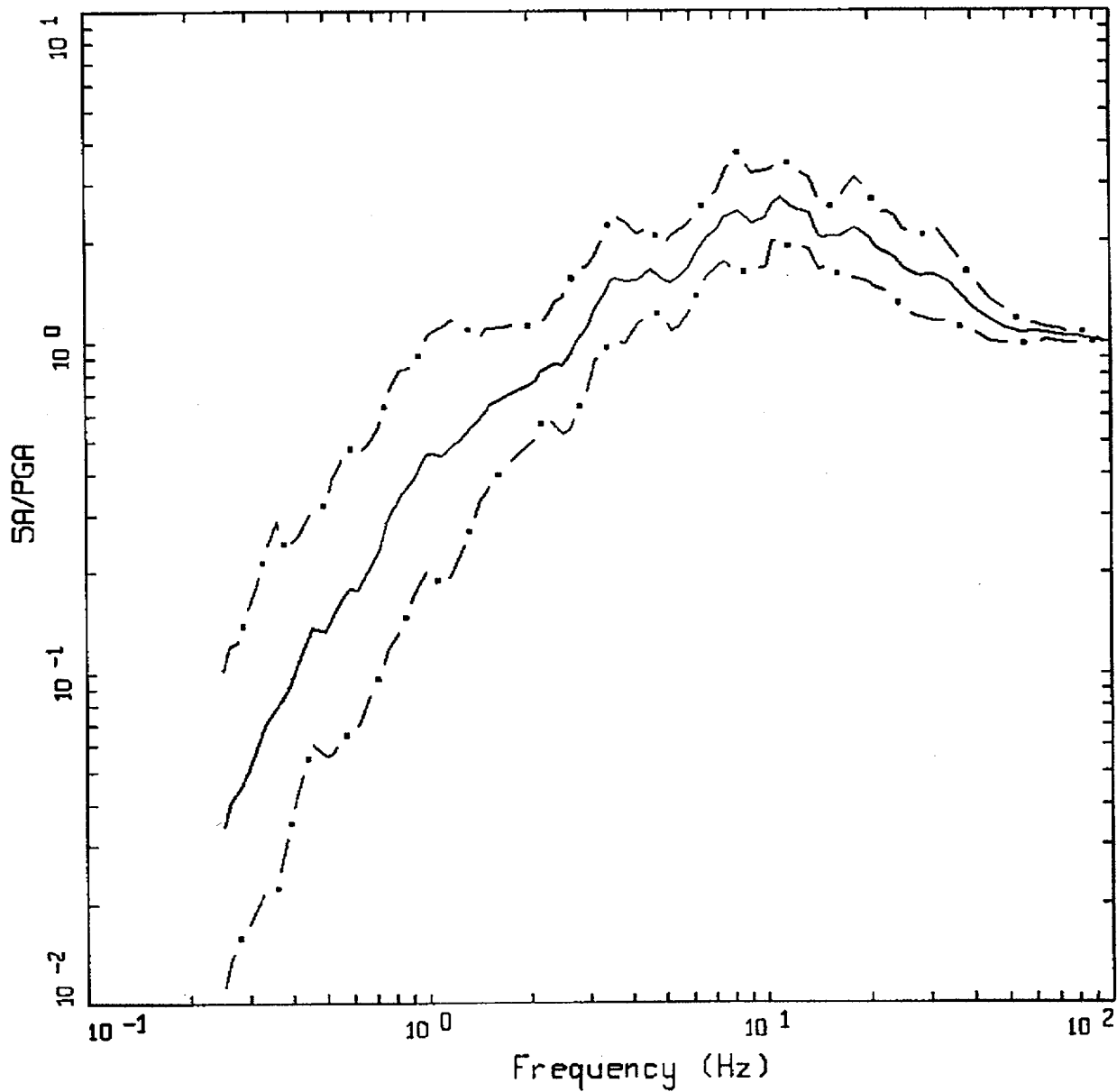
Figure C-32. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-10$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=0-10$ KM, ROCK
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 4.20 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

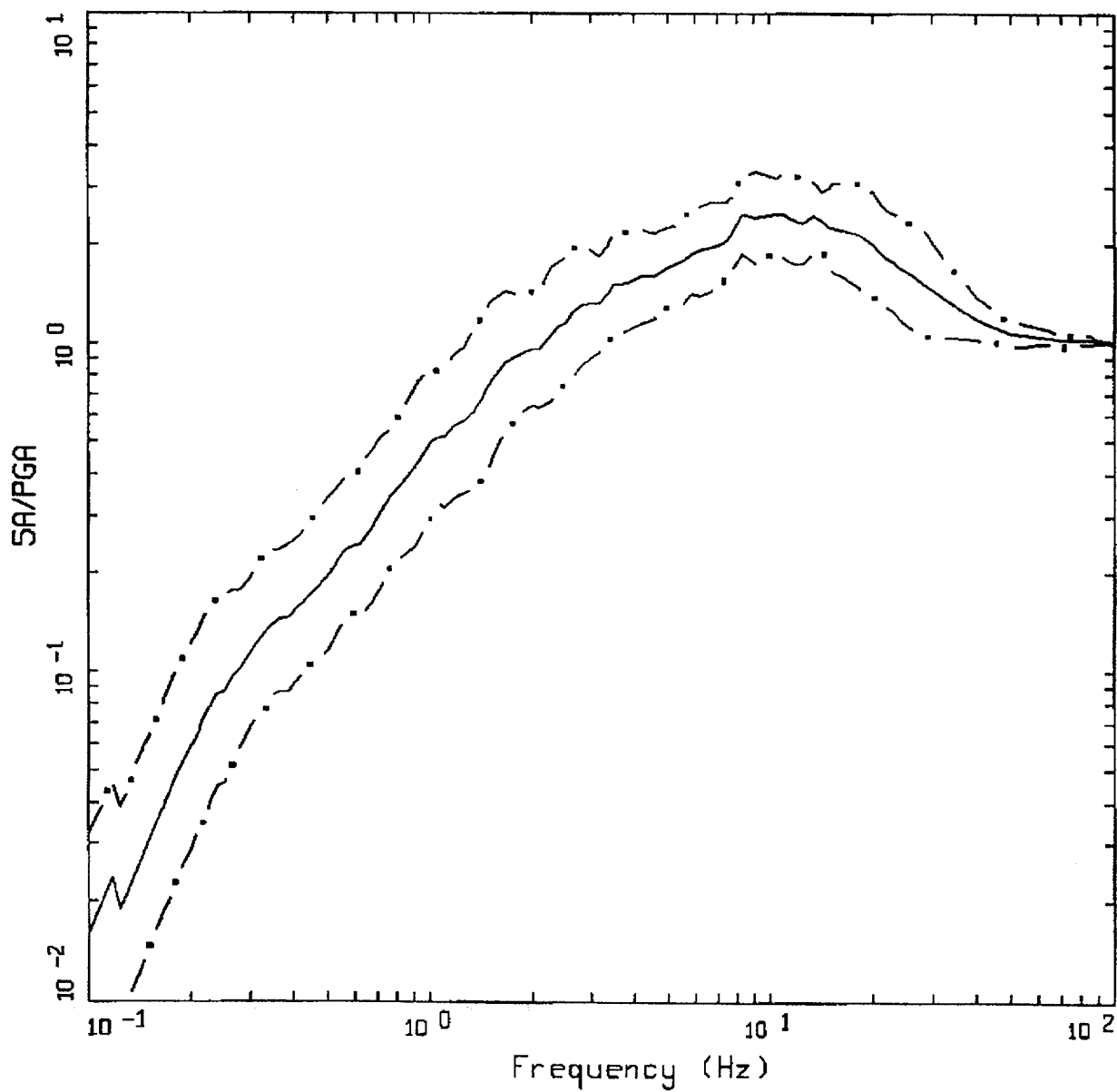
Figure C-33. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-10$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-10$ KM, SOIL
 AVERAGE $M = 5.76$, AVERAGE DISTANCE = 7.80 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

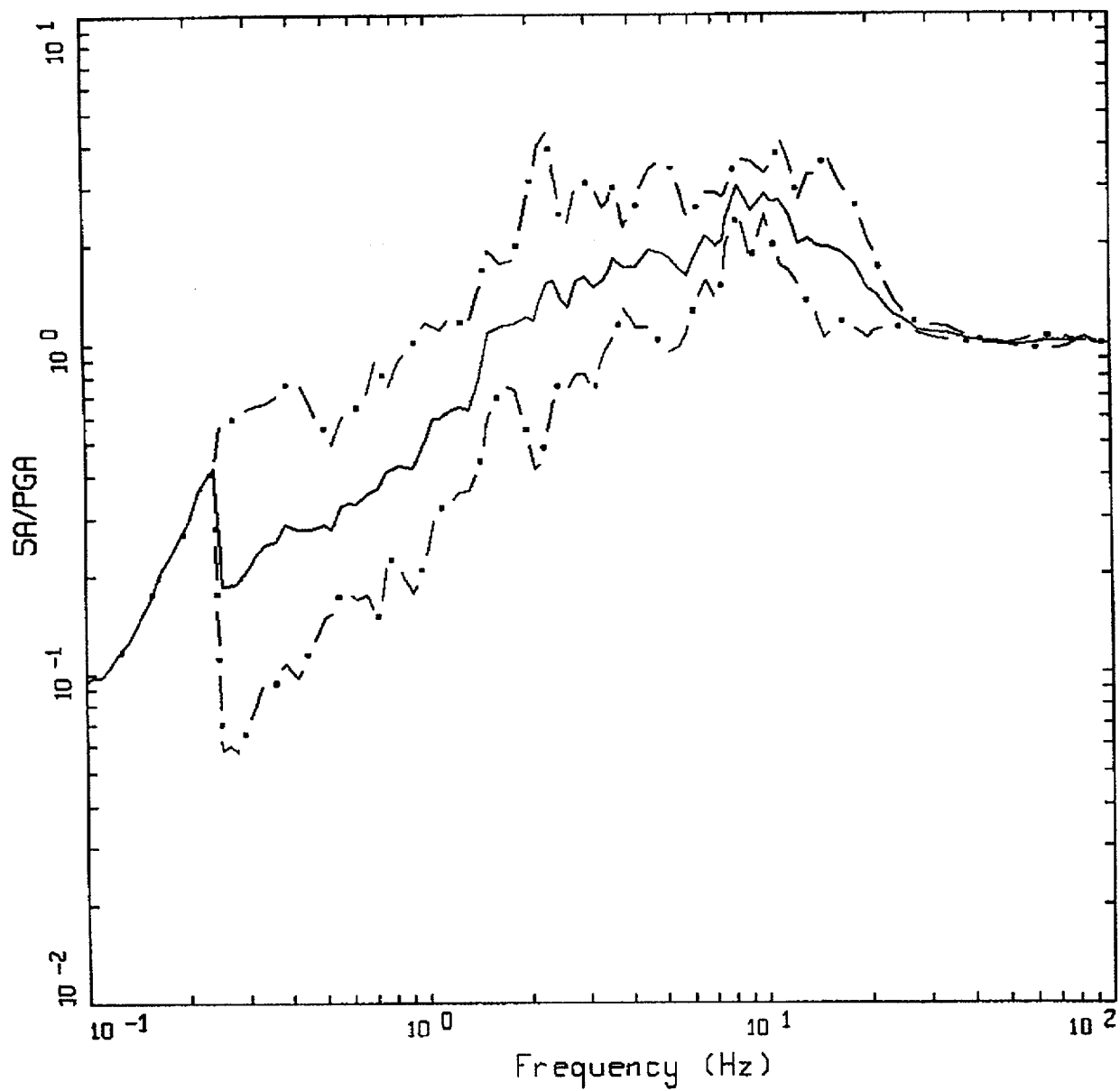
Figure C-34. Median $\pm 1\sigma$ spectral shapes for $M \approx 5.5$, $R = 0-10$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-10$ KM, SOIL
 AVERAGE $M = 6.46$, AVERAGE DISTANCE = 6.00 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

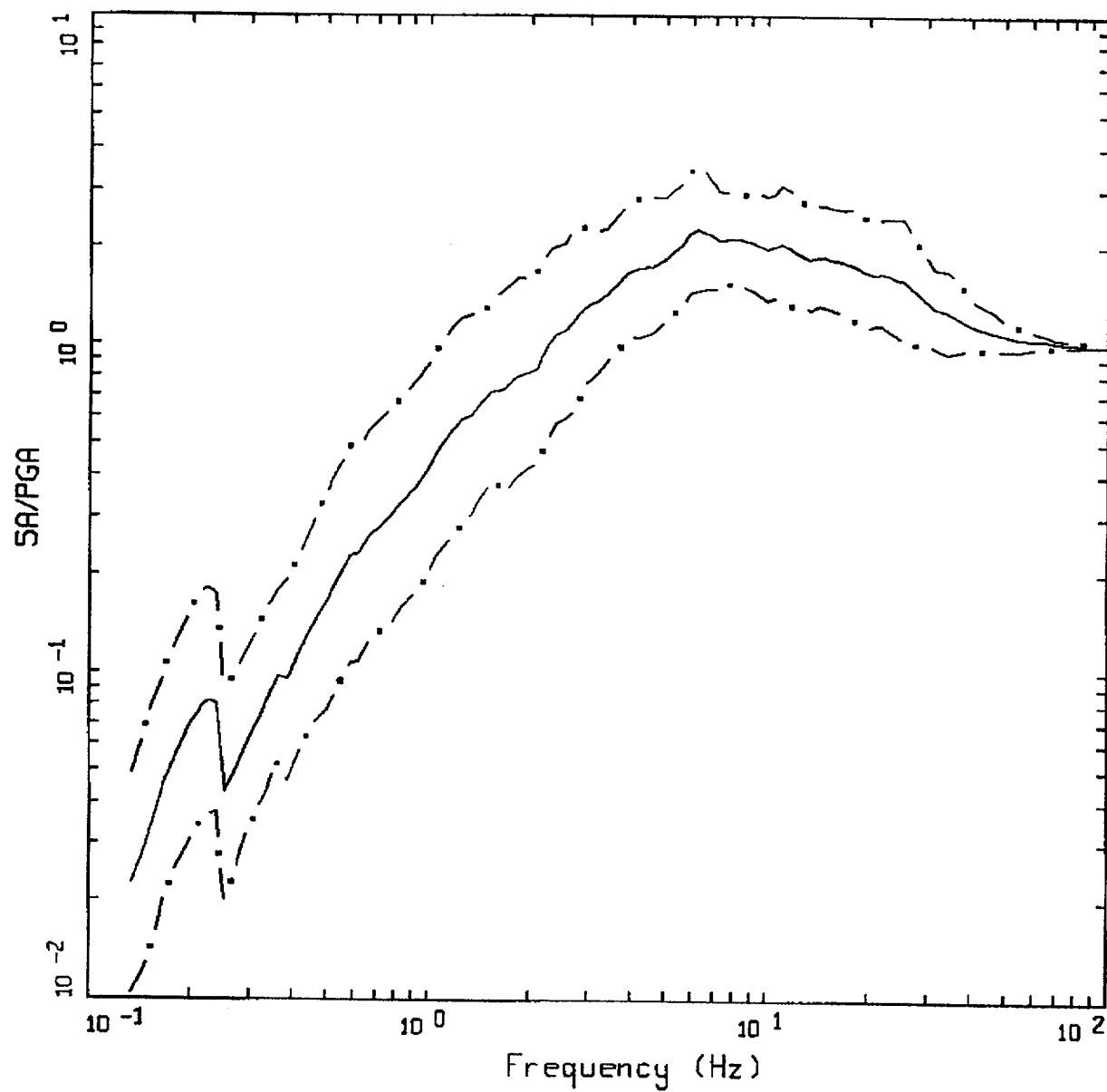
Figure C-35. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-10$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=0-10$ KM, SOIL
 AVERAGE $M = 7.05$, AVERAGE DISTANCE = 8.90 KM

LEGEND
 ————— 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

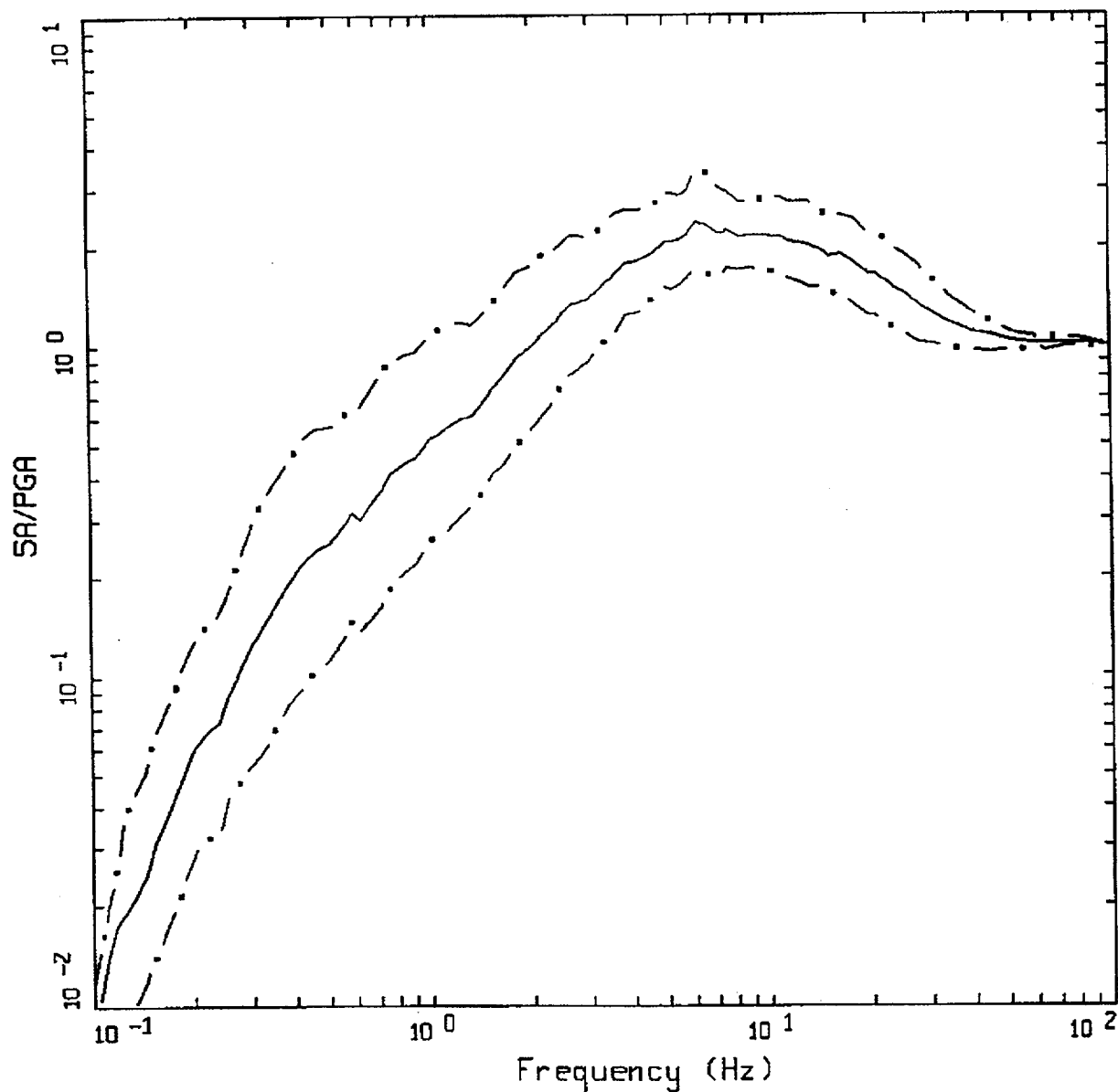
Figure C-36. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-10$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=10-50$ KM, ROCK
 AVERAGE $M = 5.57$, AVERAGE DISTANCE = 21.80 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

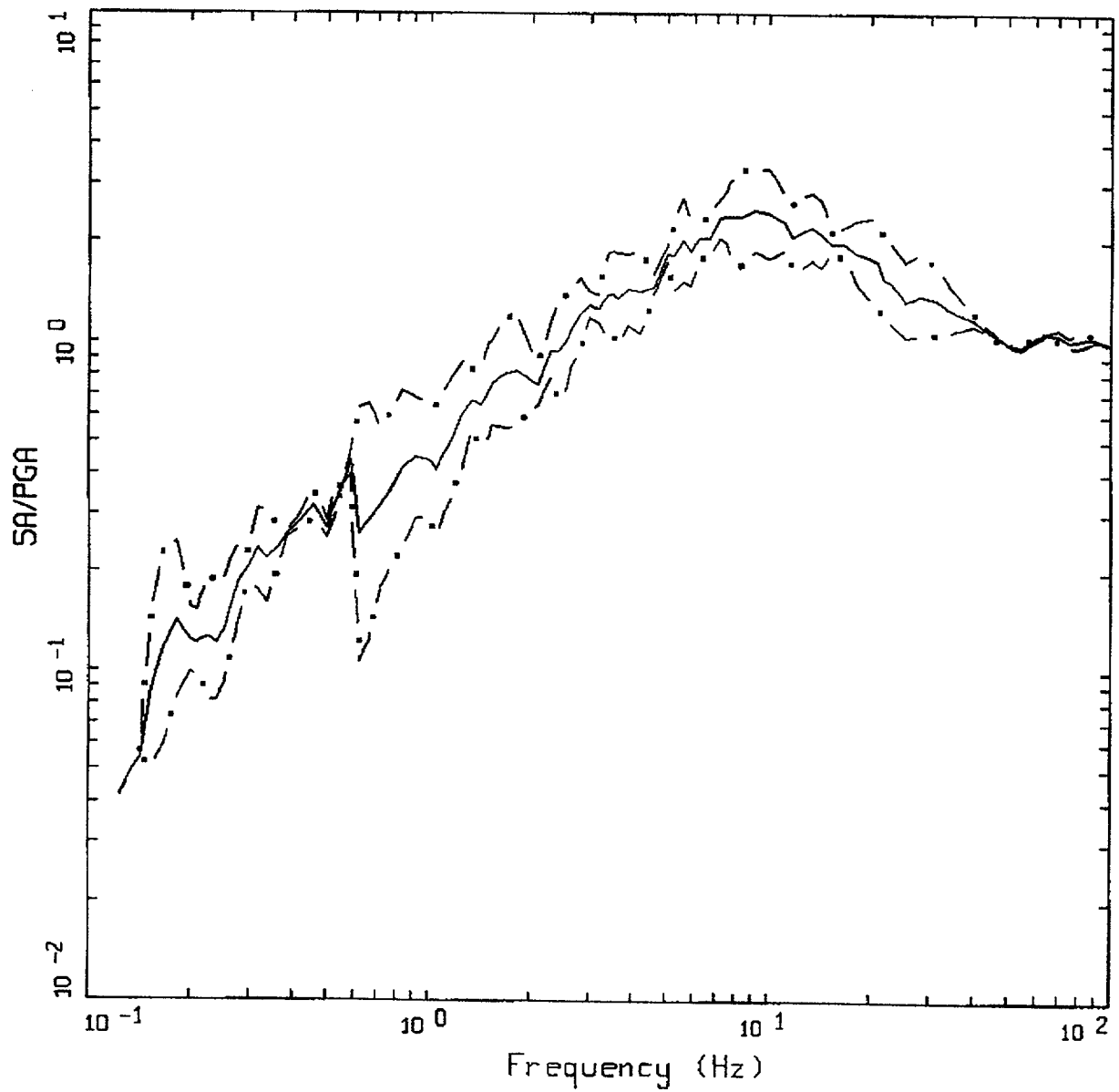
Figure C-37. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 10-50$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=10-50$ KM, ROCK
 AVERAGE $M = 6.43$, AVERAGE DISTANCE = 30.28 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

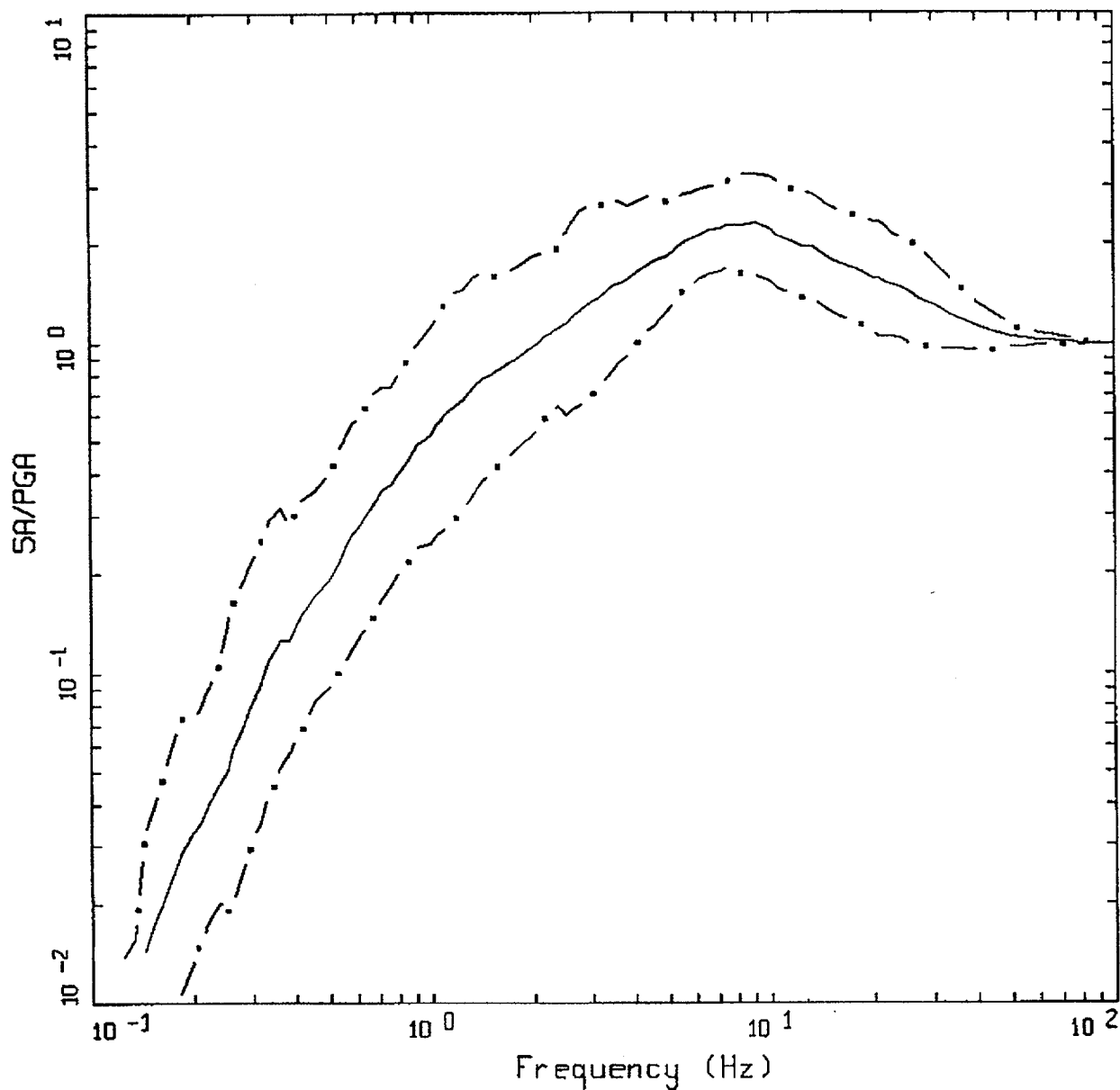
Figure C-38. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 10-50$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=10-50$ KM, ROCK
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 31.00 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

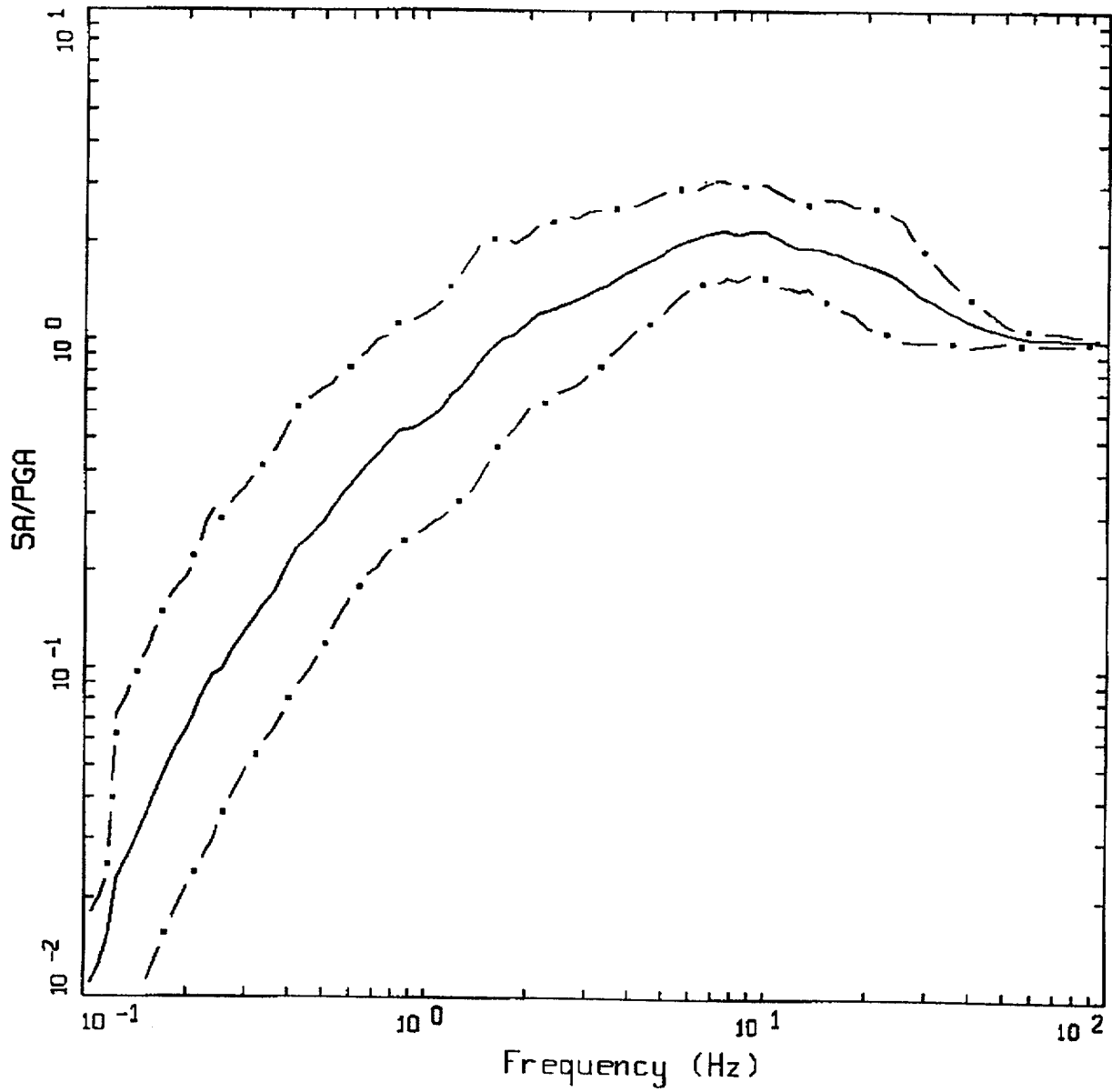
Figure C-39. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 10-50$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=10-50$ KM, SOIL
 AVERAGE $M = 5.69$, AVERAGE DISTANCE = 21.82 KM

LEGEND
 — 50TH PERCENTILE
 - • - 16TH PERCENTILE
 - . - 84TH PERCENTILE

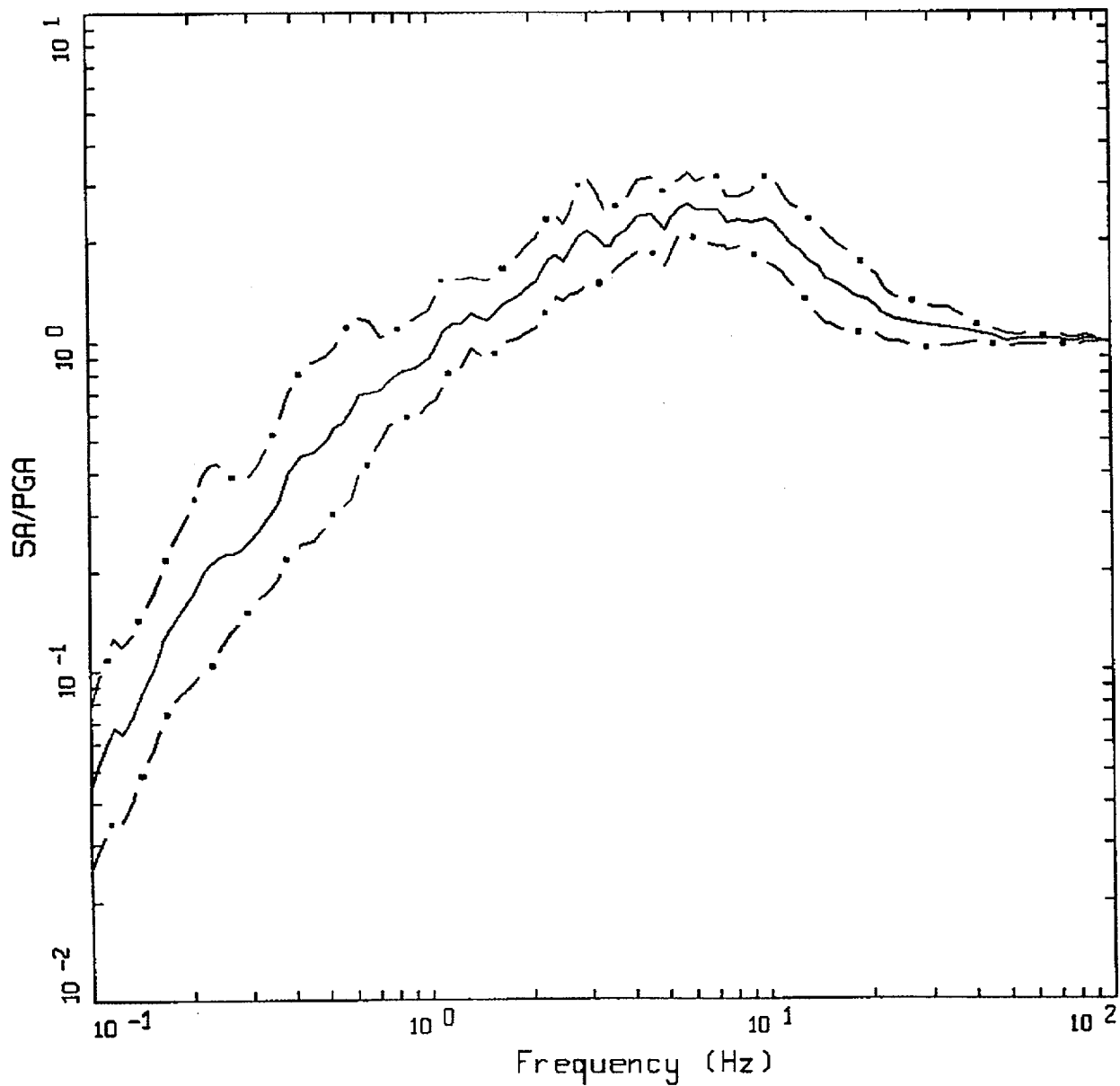
Figure C-40. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 10-50$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=10-50$ KM, SOIL
 AVERAGE $M = 6.35$, AVERAGE DISTANCE = 28.27 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

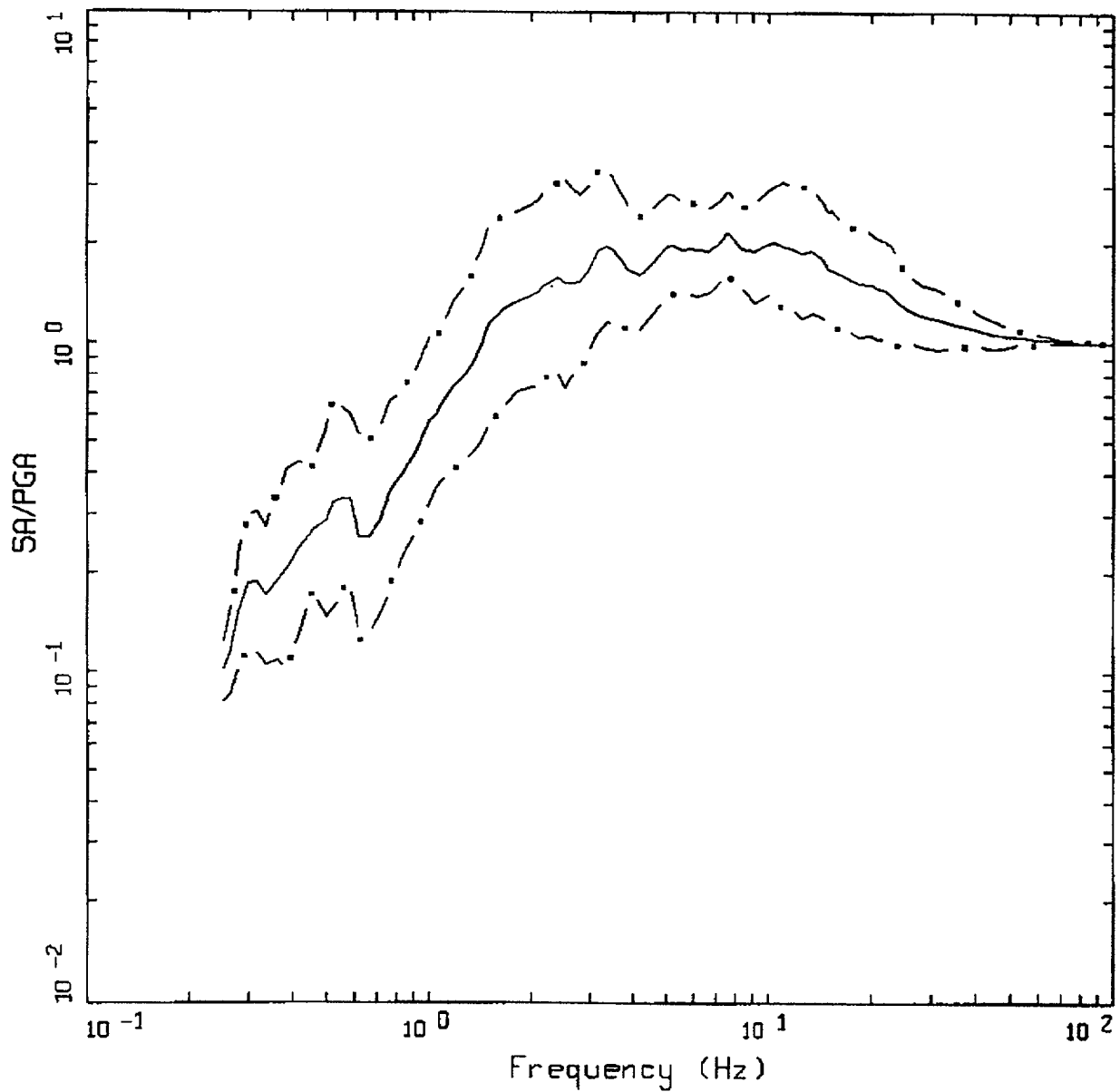
Figure C-41. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 10-50$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=10-50$ KM, SOIL
 AVERAGE $M = 7.29$, AVERAGE DISTANCE = 33.46 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

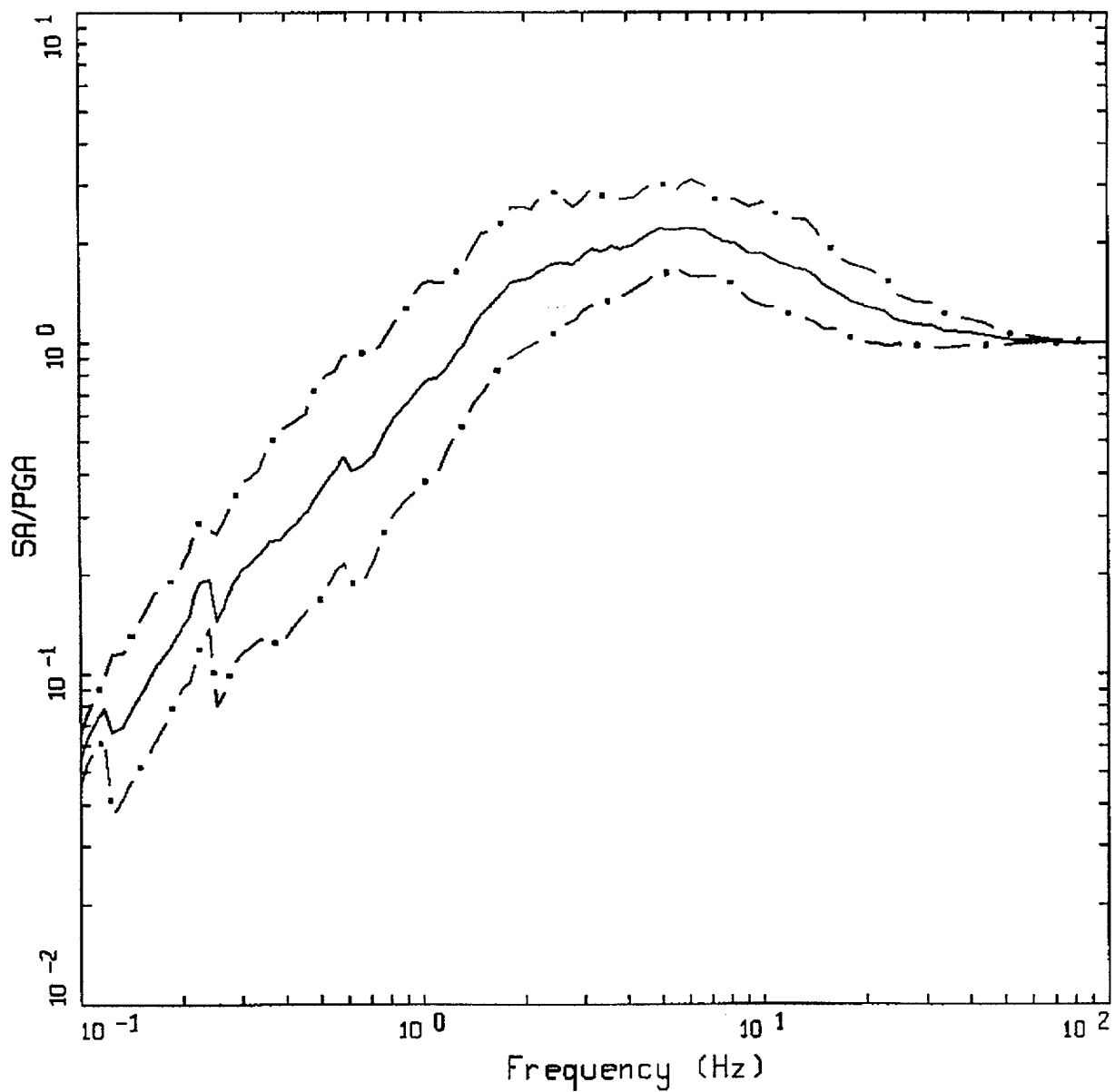
Figure C-42. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 10-50$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=50-100$ KM, ROCK
 AVERAGE $M = 5.91$, AVERAGE DISTANCE = 64.27 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

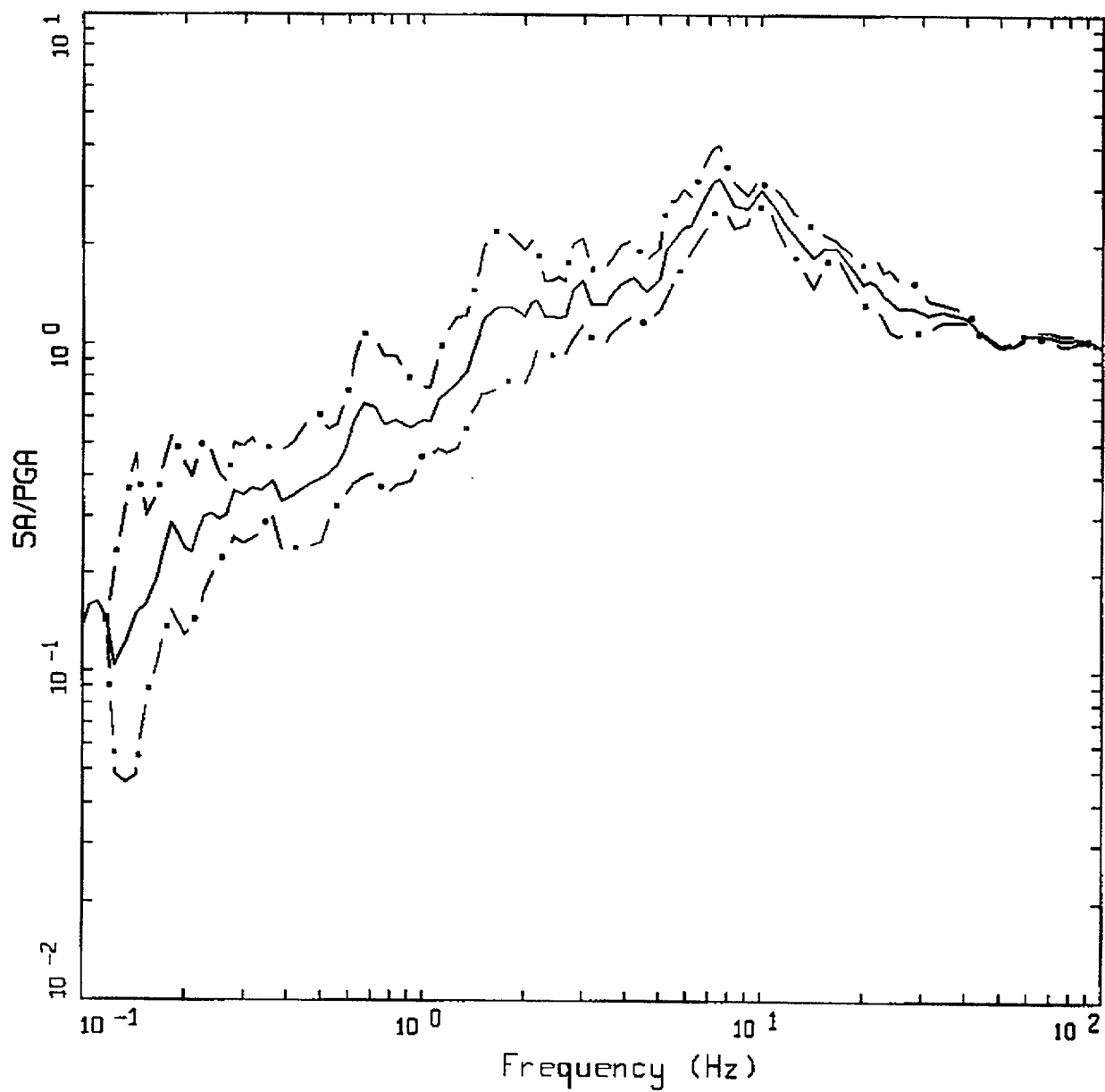
Figure C-43. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 50-100$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=50-100$ KM, ROCK
 AVERAGE $M = 6.51$, AVERAGE DISTANCE = 70.35 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

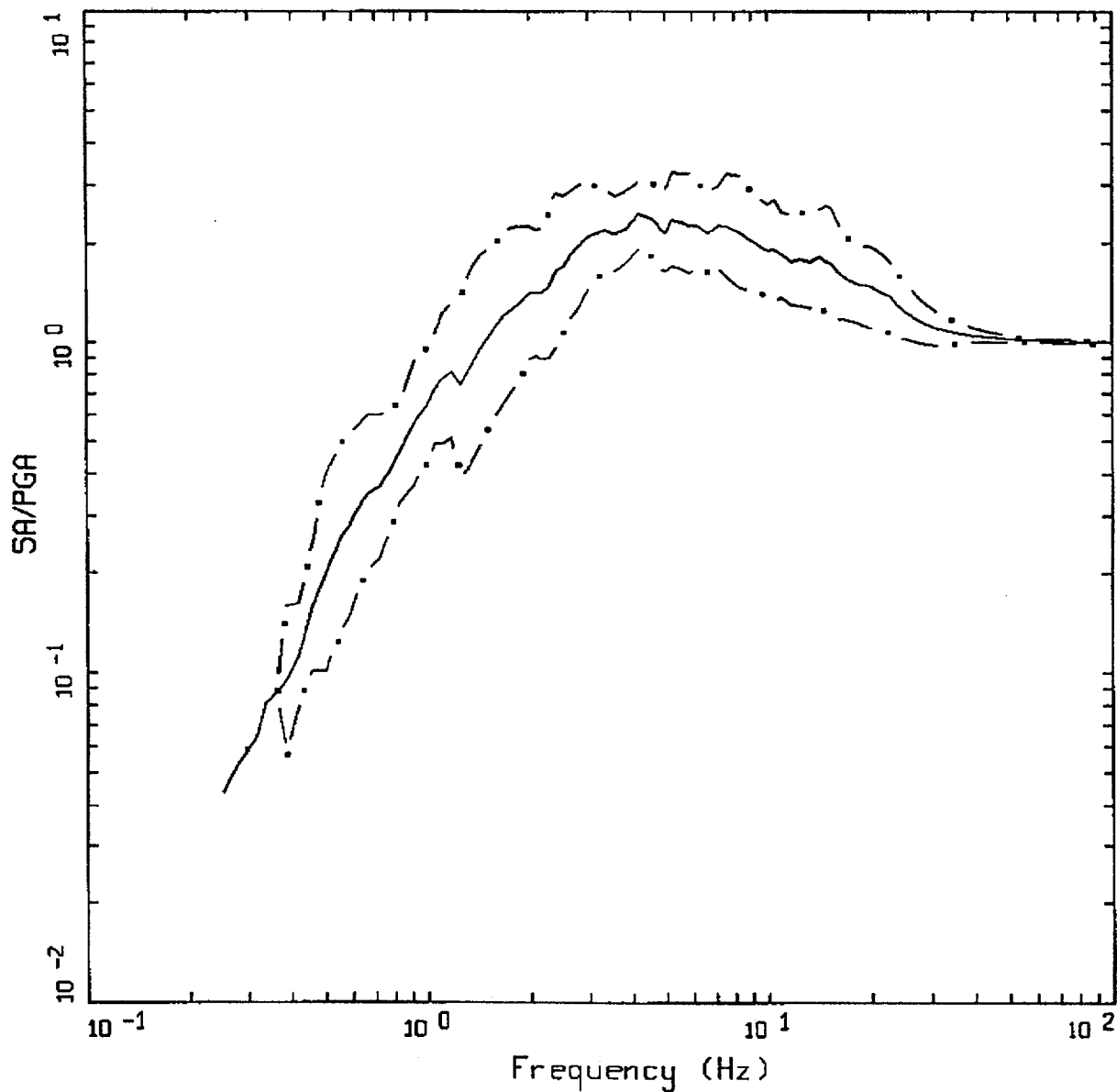
Figure C-44. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 50-100$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=50-100$ KM, ROCK
 AVERAGE $M = 7.32$, AVERAGE DISTANCE = 81.46 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

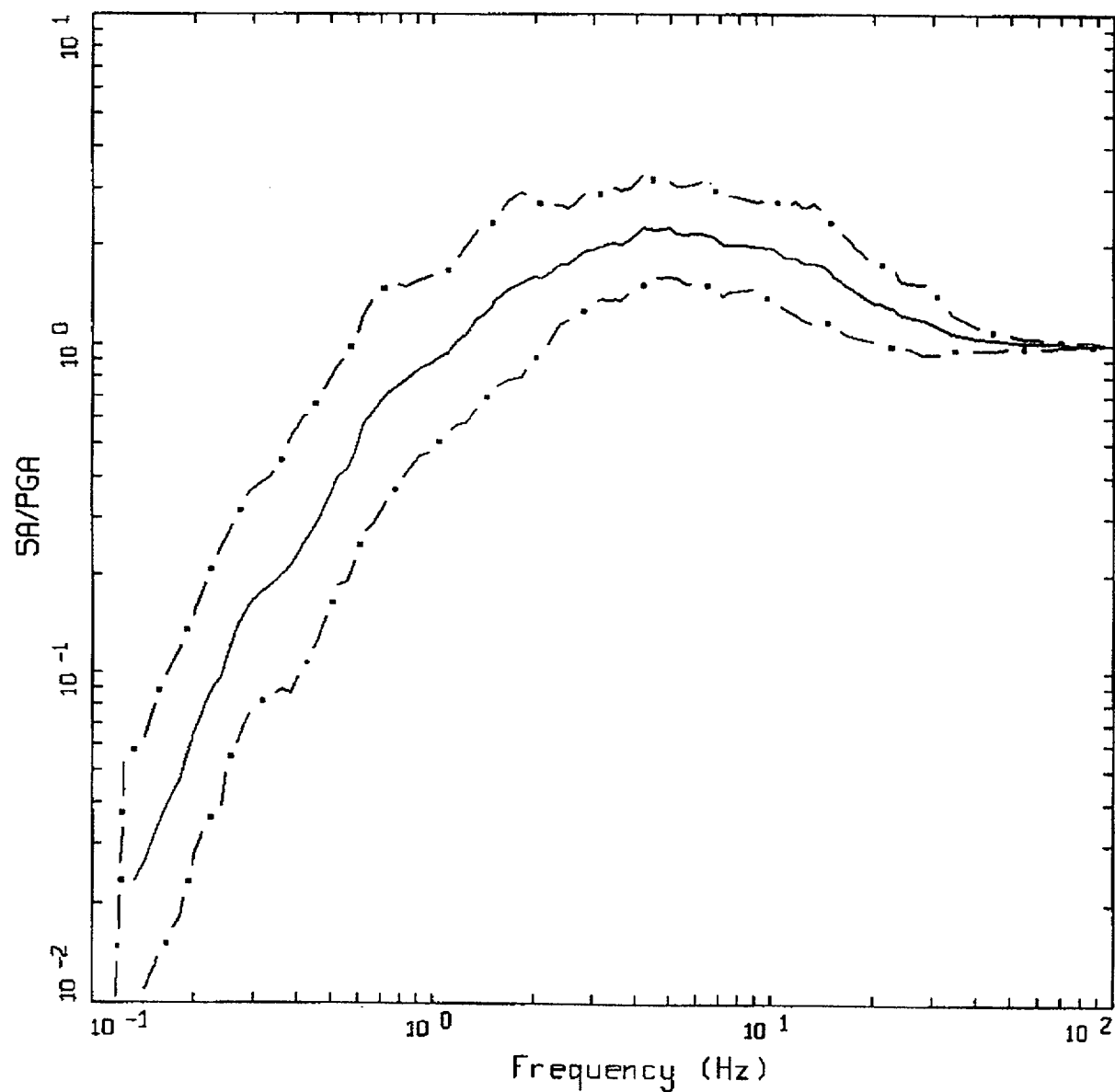
Figure C-45. Median $\pm 1 \sigma$ spectral shapes for $M \sim 7.5$, $R = 50-100$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=50-100$ KM, SOIL
 AVERAGE $M = 5.80$, AVERAGE DISTANCE = 67.22 KM

LEGEND
 — 50TH PERCENTILE
 - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

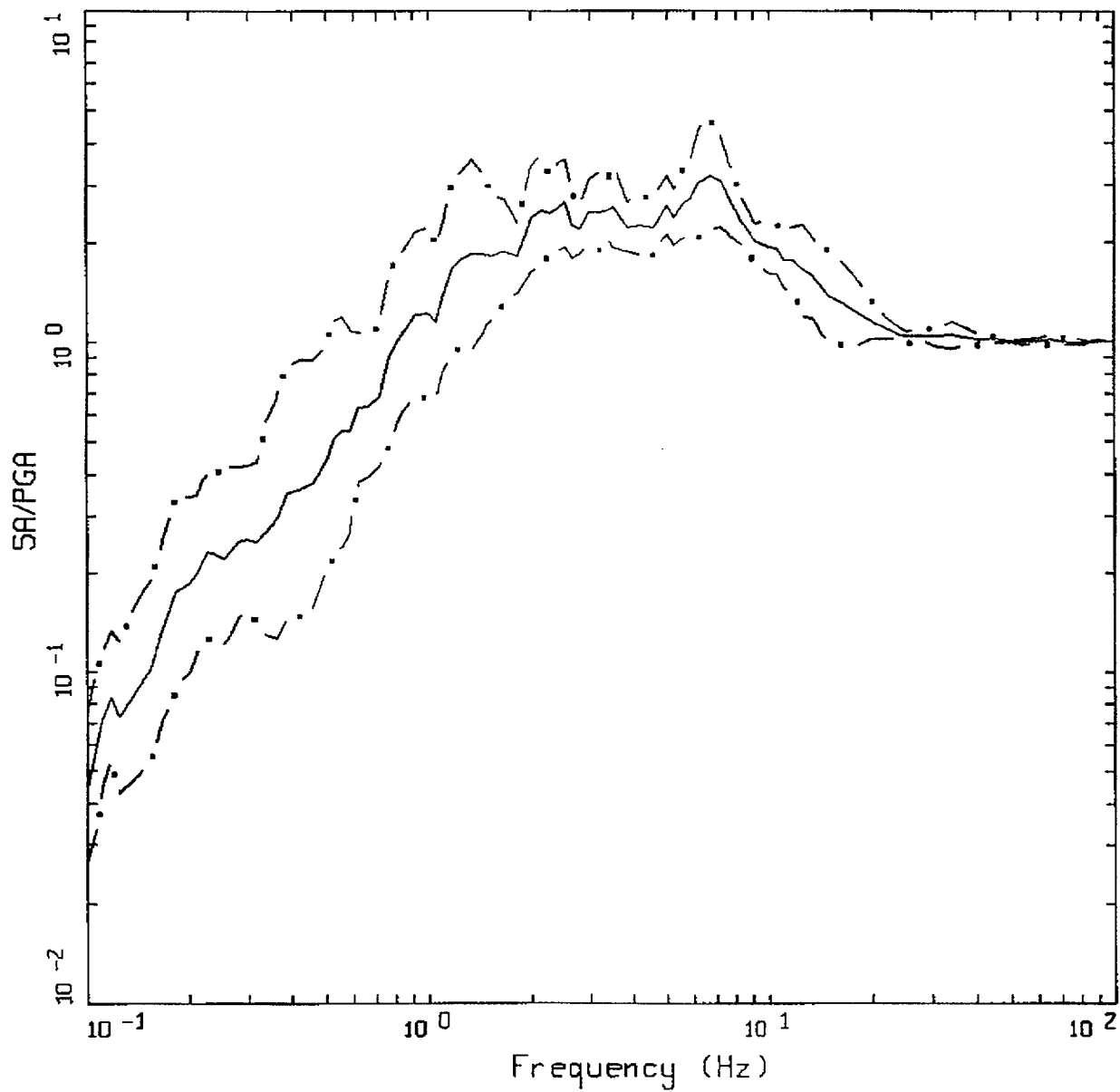
Figure C-46. Median $\pm 1\sigma$ spectral shapes for $M \approx 5.5$, $R = 50-100$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=50-100$ KM, SOIL
 AVERAGE $M = 6.49$, AVERAGE DISTANCE = 67.34 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

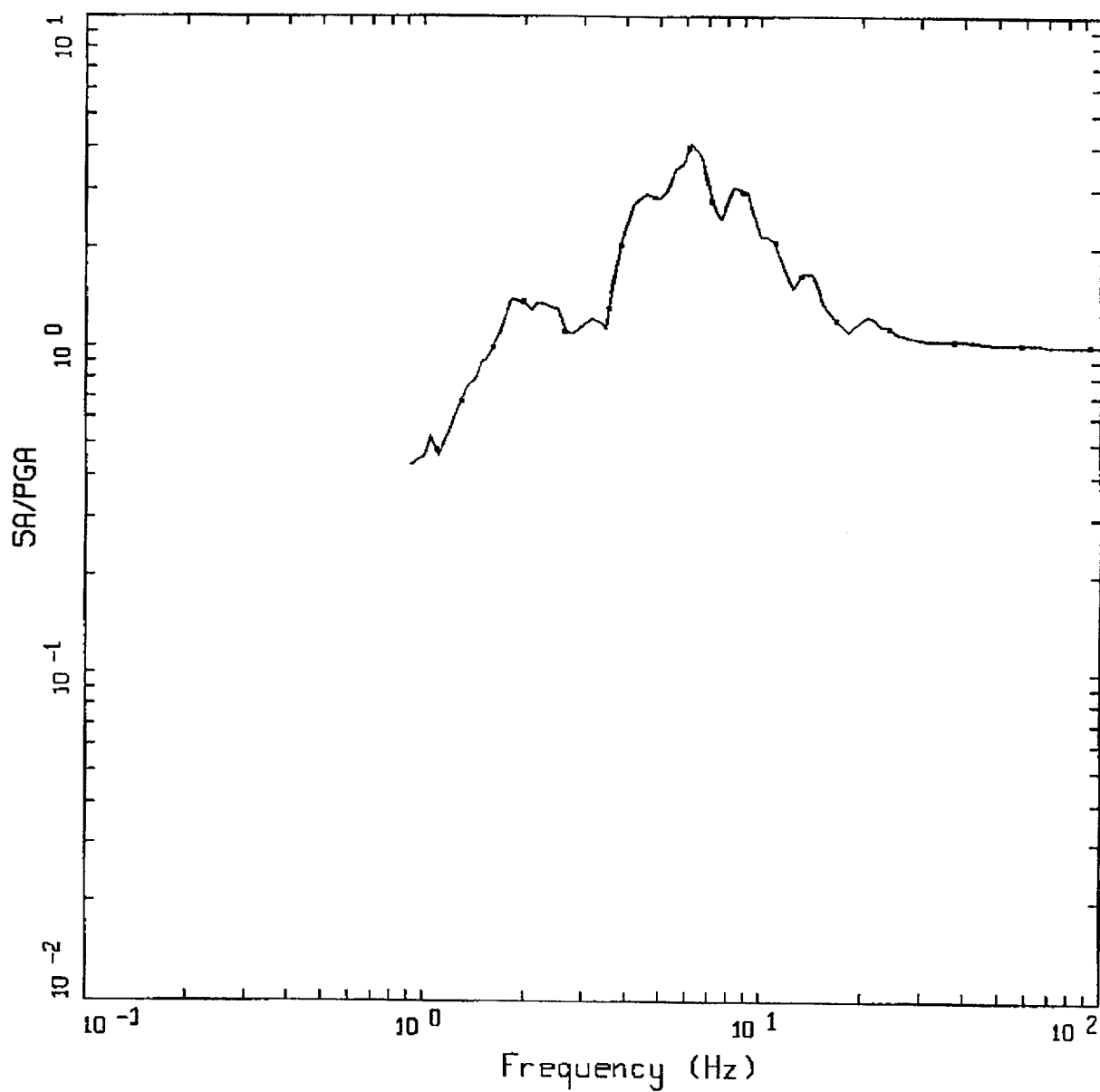
Figure C-47. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 50-100$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=50-100$ KM, SOIL
 AVERAGE $M = 7.31$, AVERAGE DISTANCE = 76.57 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

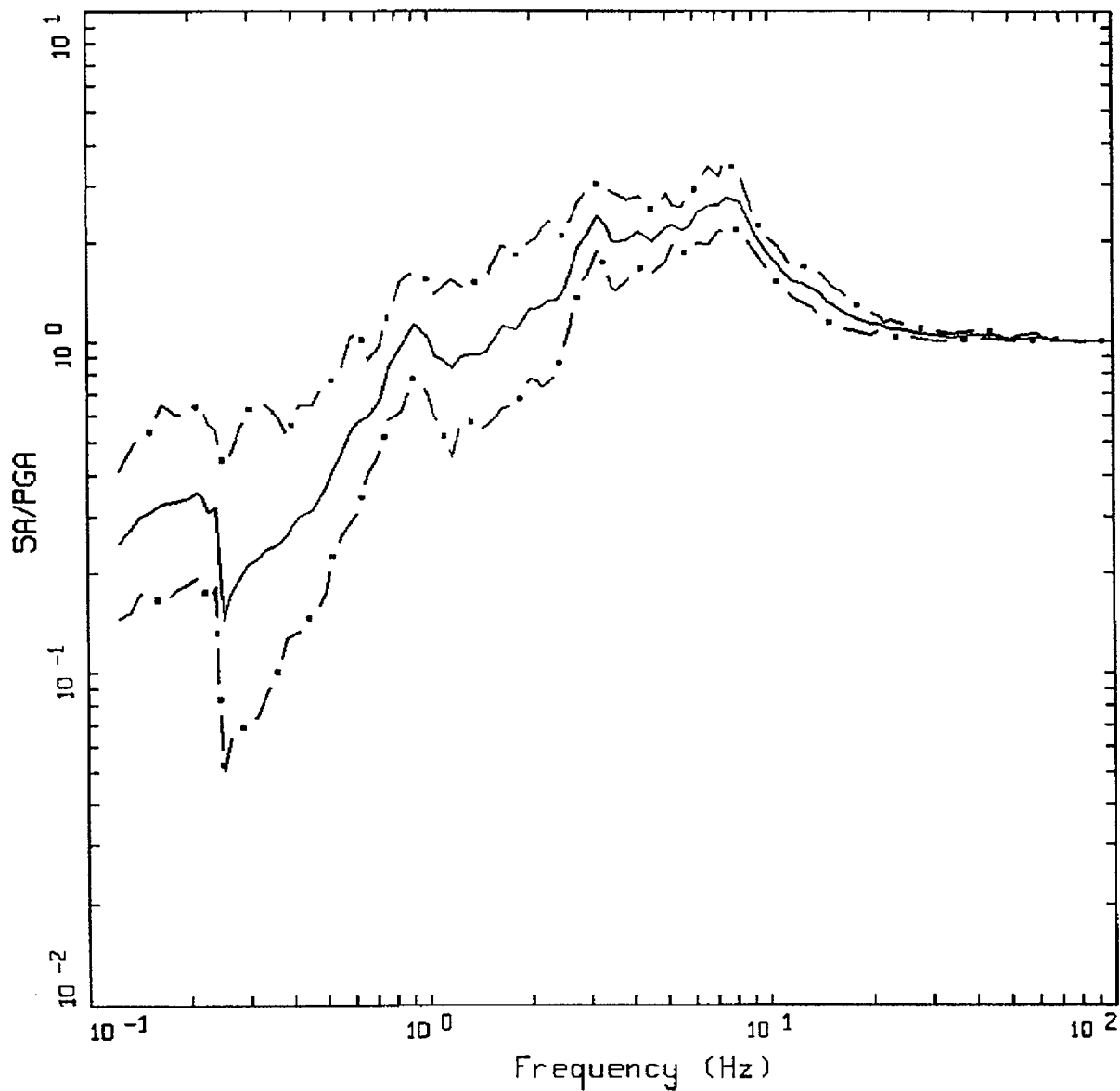
Figure C-48. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 50-100$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=100-200$ KM, ROCK
 AVERAGE $M = 5.40$, AVERAGE DISTANCE = 107.80 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

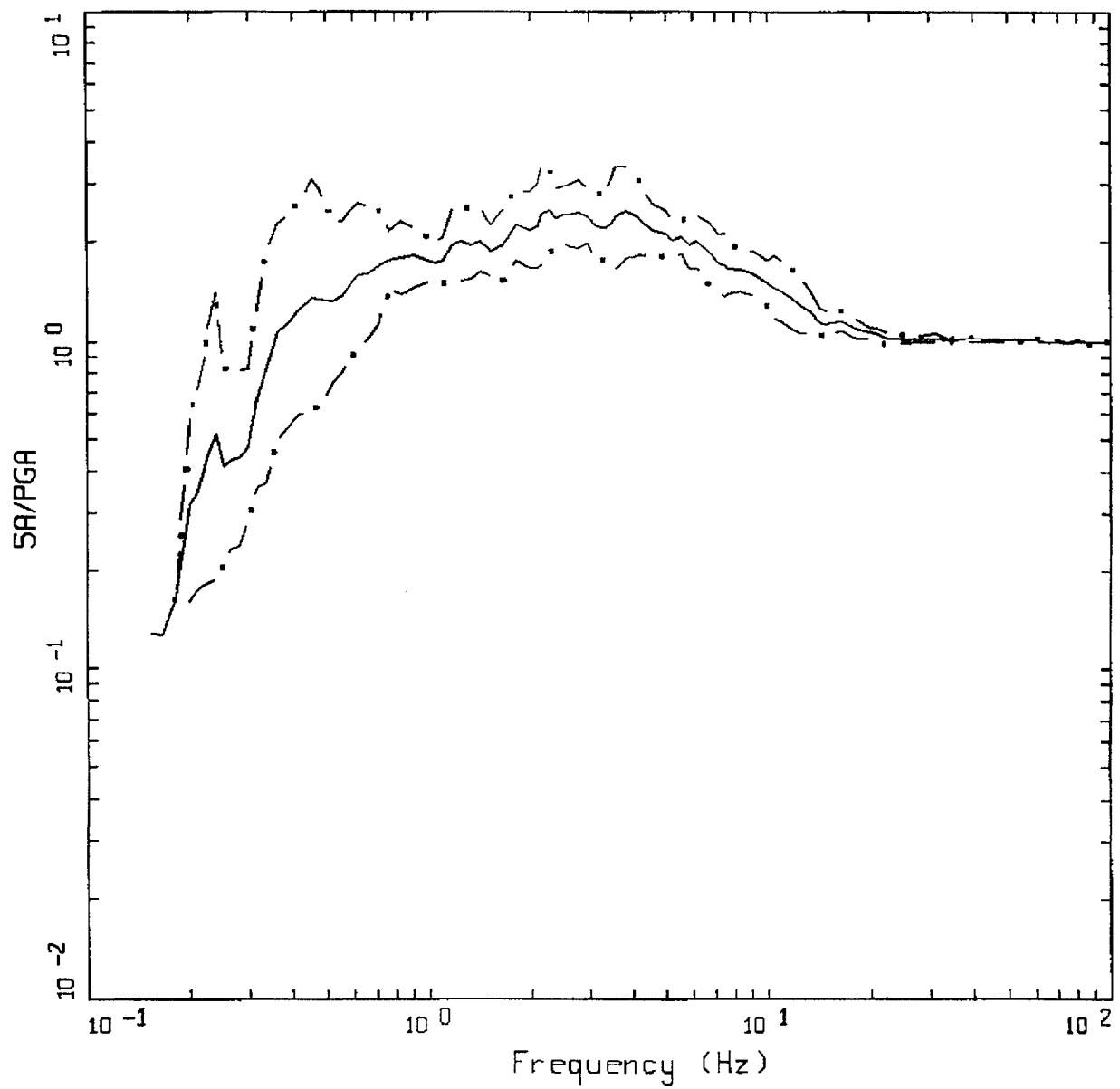
Figure C-49. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 100-200$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=100-200$ KM, ROCK
 AVERAGE $M = 6.64$, AVERAGE DISTANCE = 114.57 KM

LEGEND
 ————— 50TH PERCENTILE
 - - - - - 16TH PERCENTILE
 - . - . - 84TH PERCENTILE

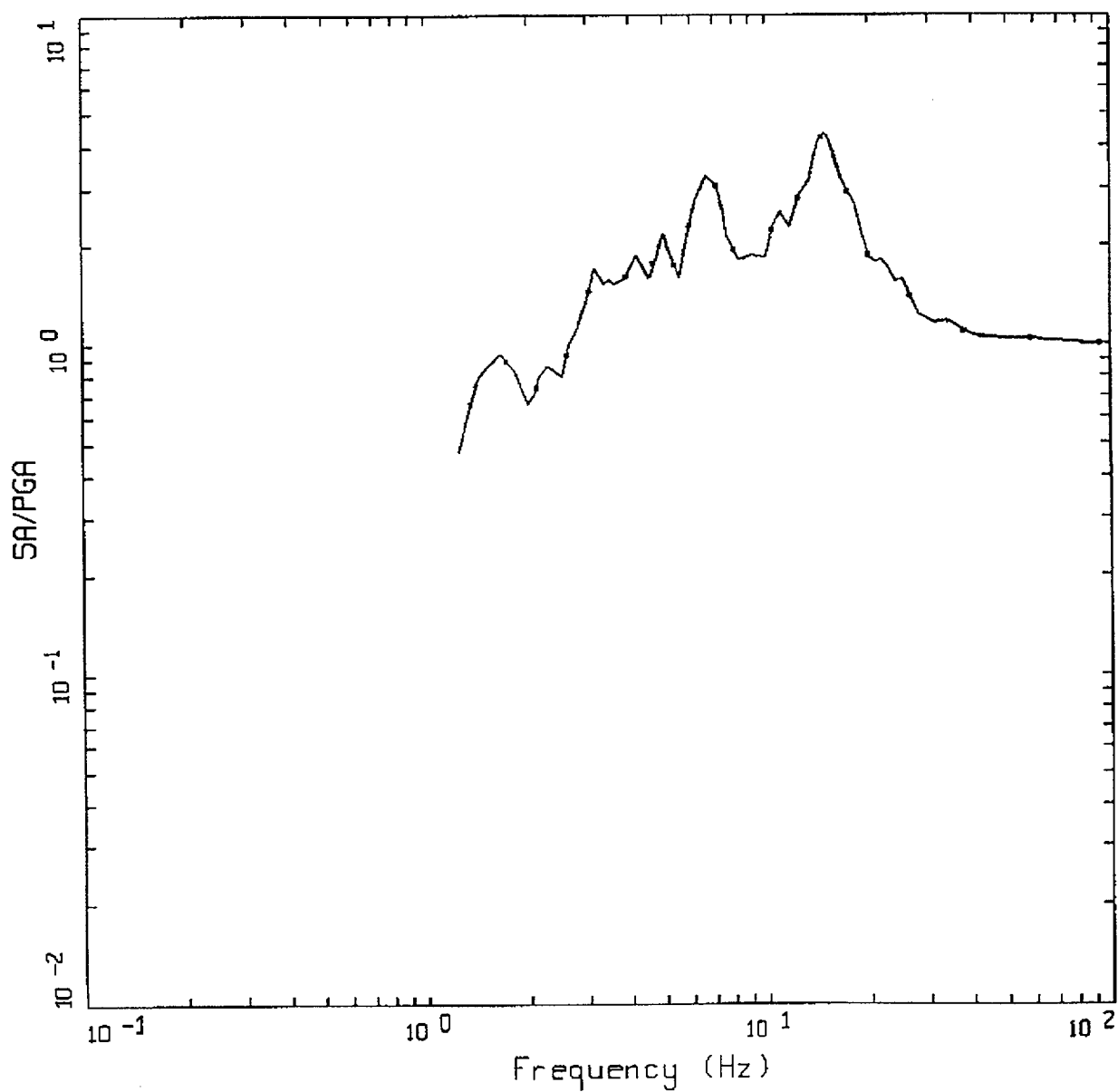
Figure C-50. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 100-200$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=100-200$ KM, ROCK
 AVERAGE $M = 7.30$, AVERAGE DISTANCE = 152.01 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

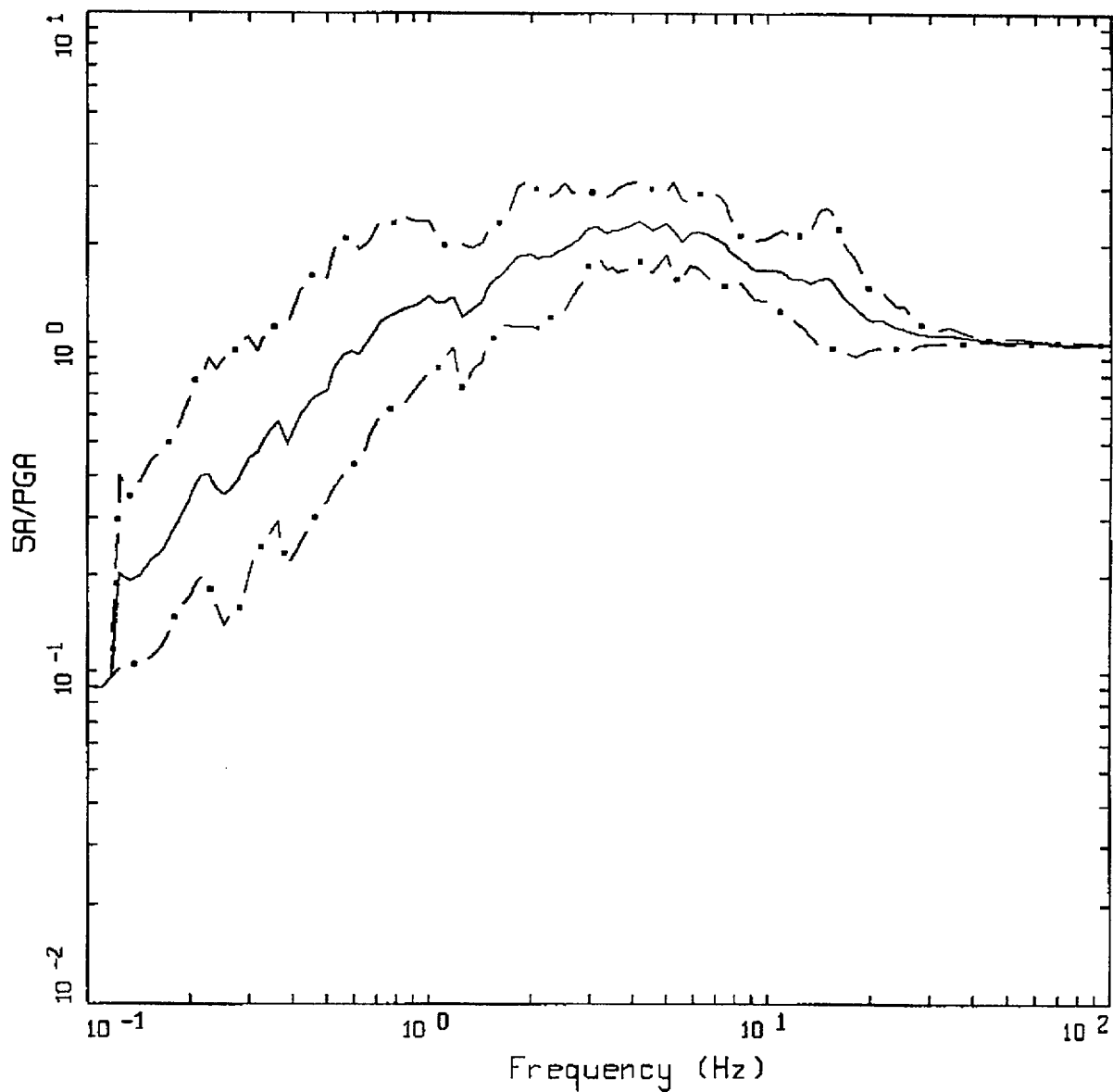
Figure C-51. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 100-200$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=100-200$ KM, SOIL
 AVERAGE $M = 6.0$, AVERAGE DISTANCE = 105.00 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 . . . 84TH PERCENTILE

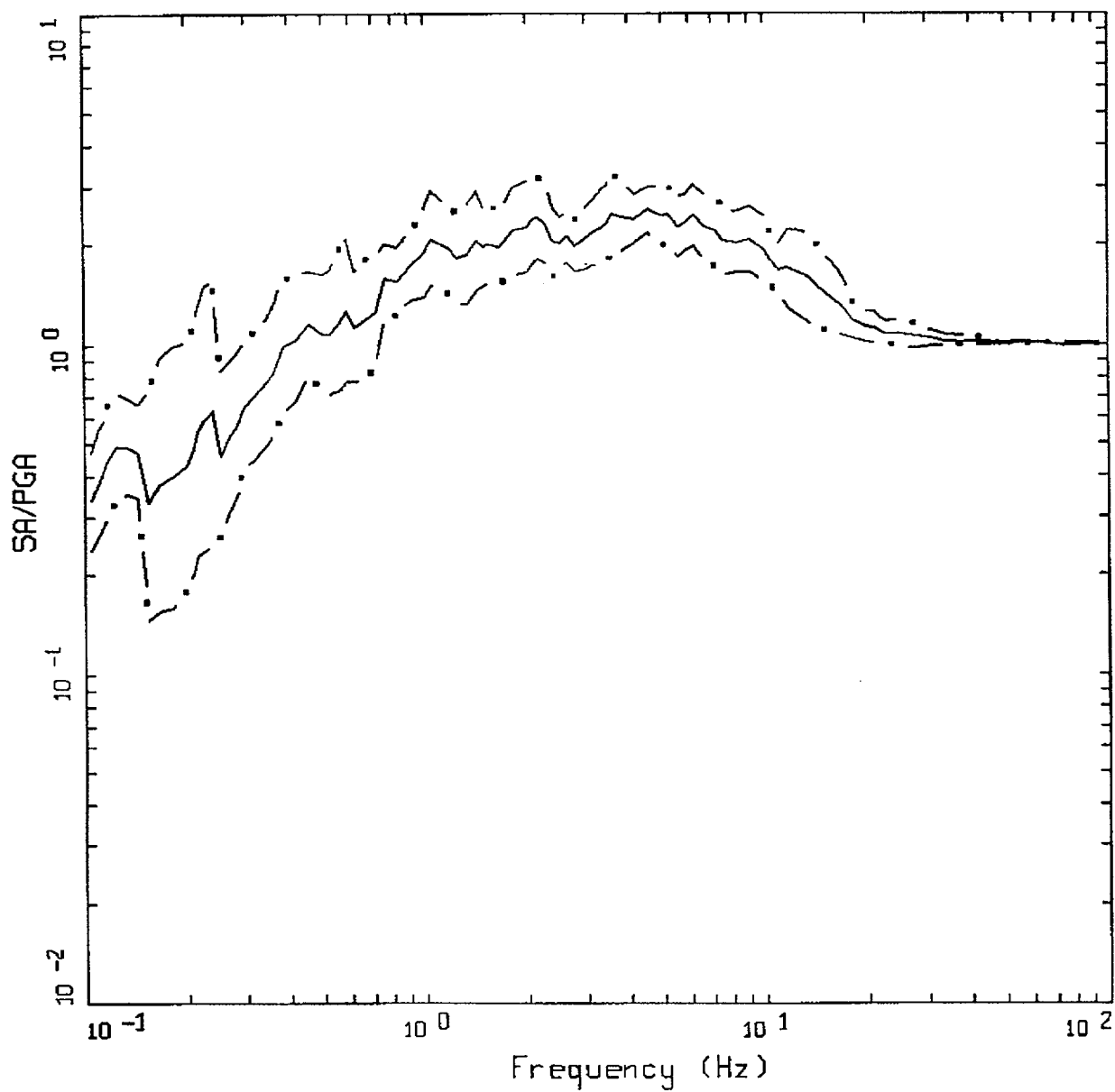
Figure C-52. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 100-200$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=100-200$ KM, SOIL
 AVERAGE $M = 6.64$, AVERAGE DISTANCE = 132.97 KM

LEGEND
 — 50TH PERCENTILE
 - · - 16TH PERCENTILE
 - · - 84TH PERCENTILE

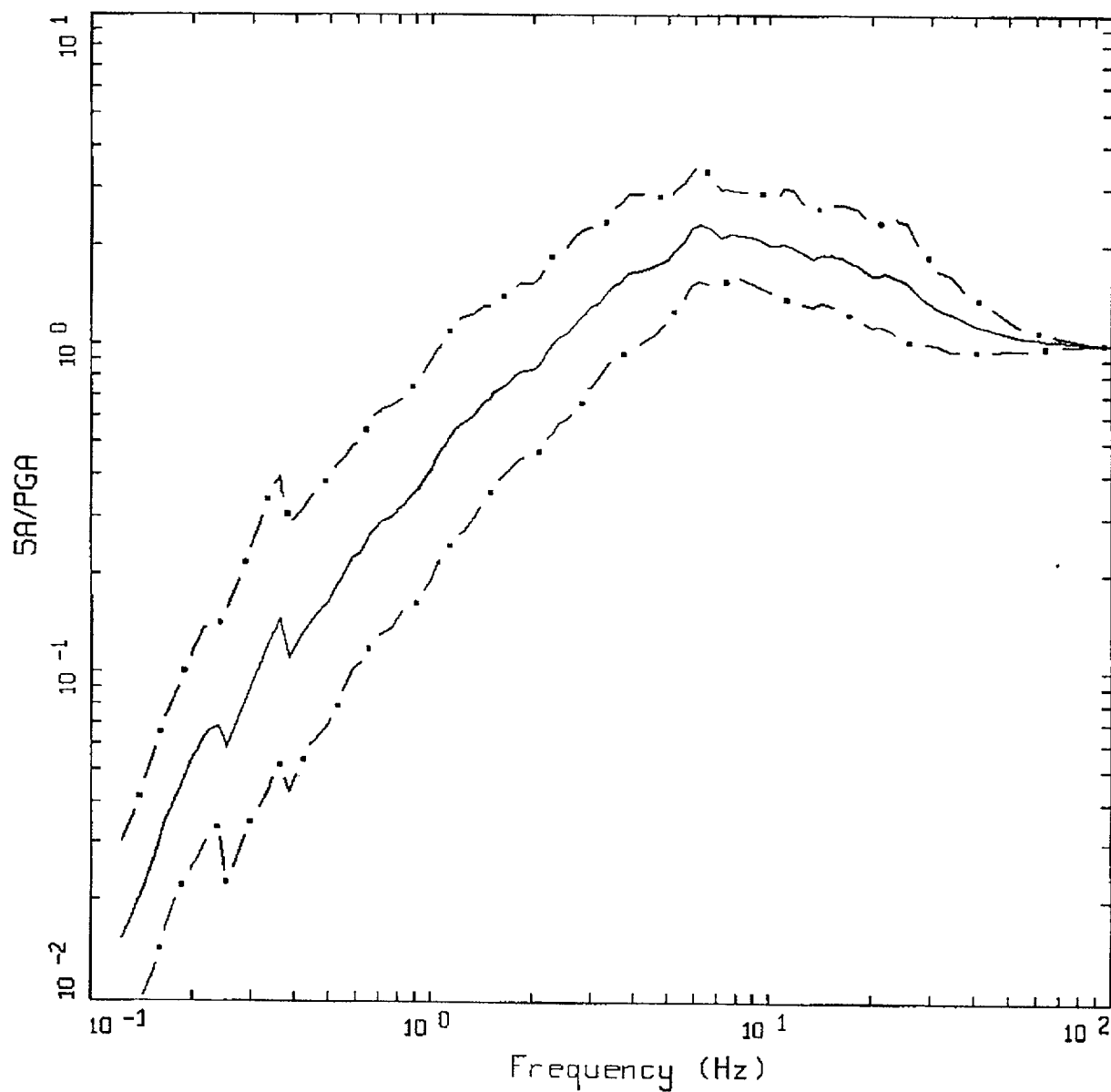
Figure C-53. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 100-200$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=100-200$ KM, SOIL
 AVERAGE $M = 7.31$, AVERAGE DISTANCE = 147.07 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

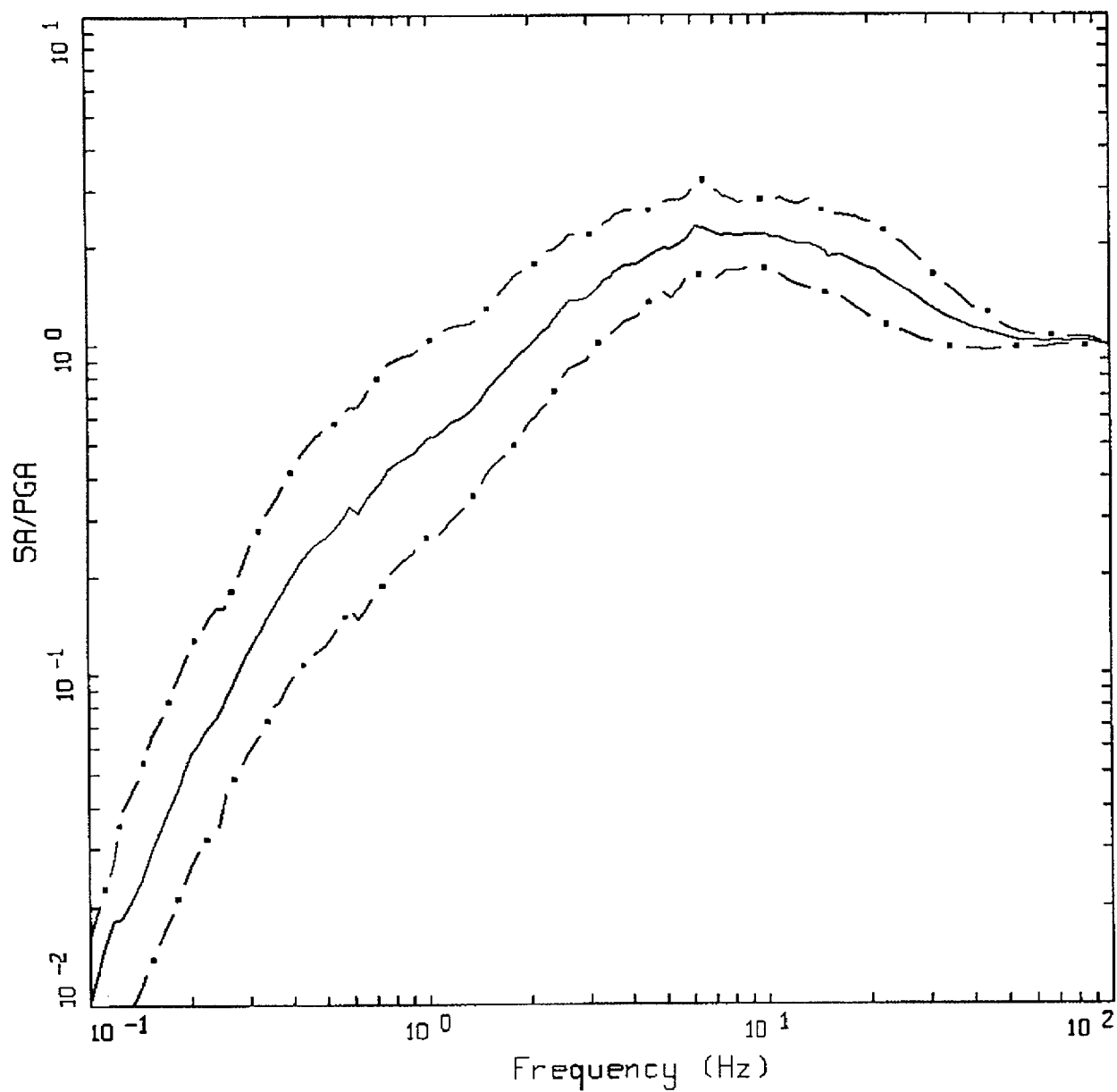
Figure C-54. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 100-200$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-50$ KM, ROCK
 AVERAGE $M = 5.57$, AVERAGE DISTANCE = 19.91 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

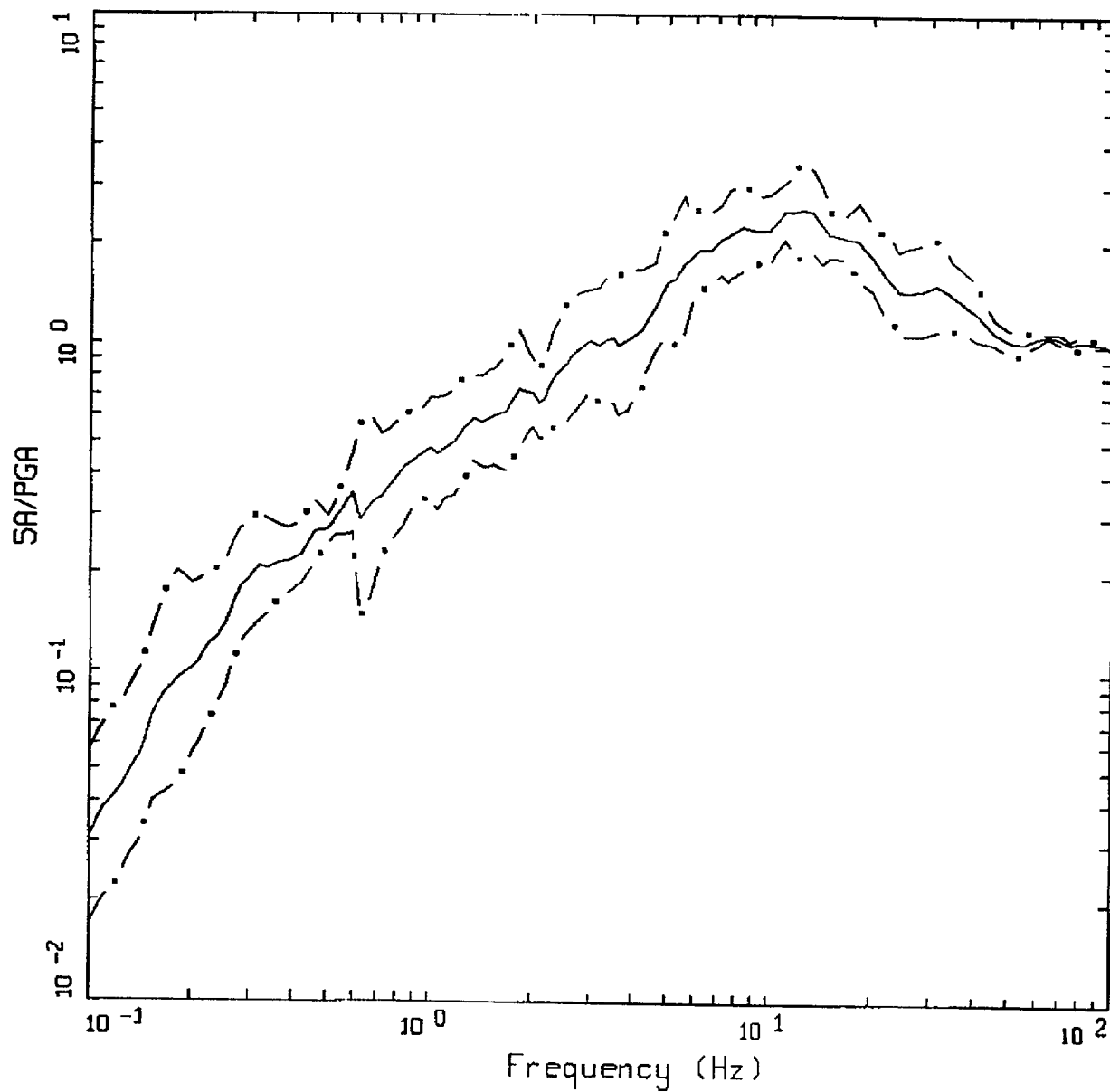
Figure C-55. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-50$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-50$ KM, ROCK
 AVERAGE $M = 6.44$, AVERAGE DISTANCE = 27.39 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . - 84TH PERCENTILE

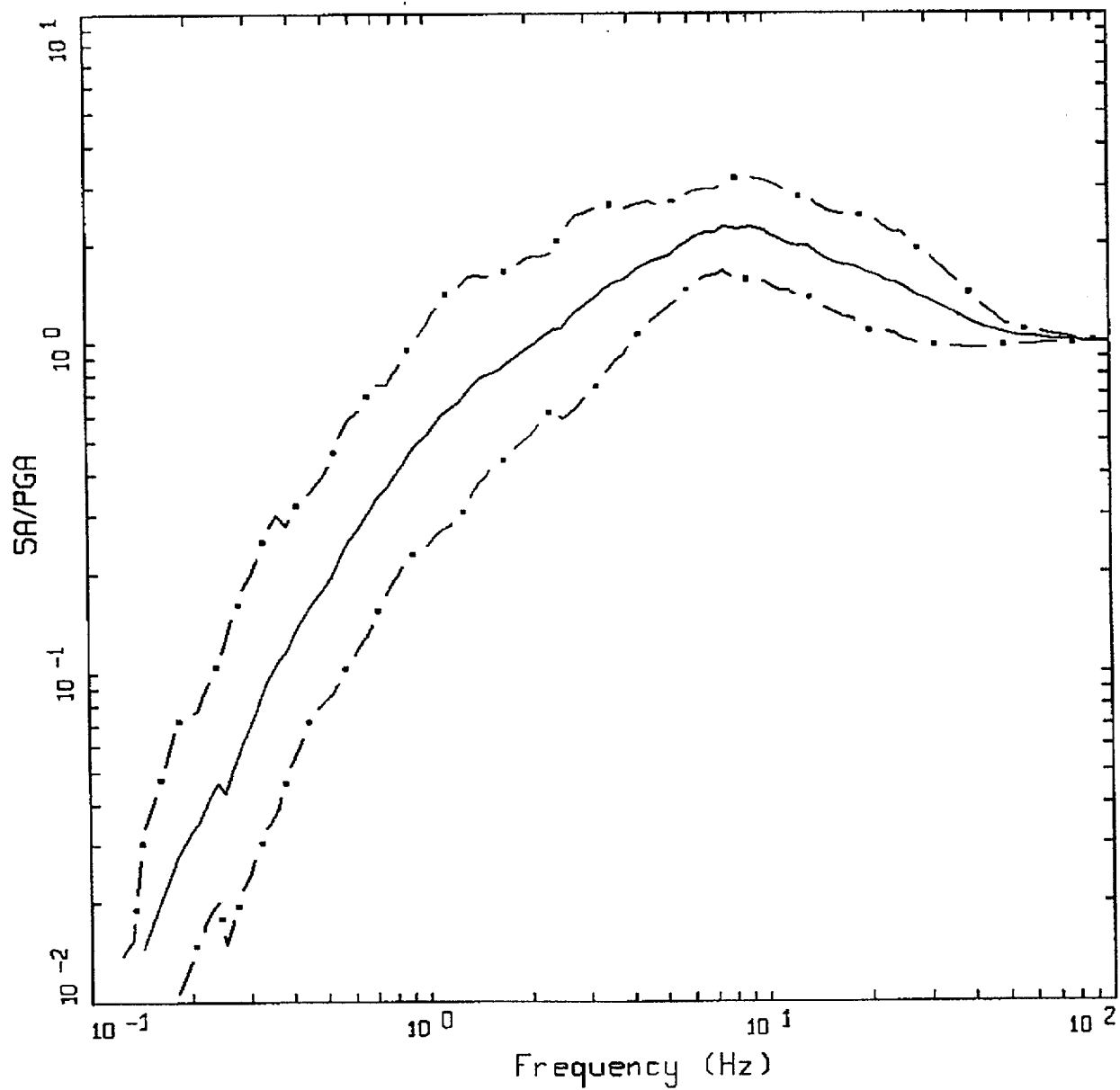
Figure C-56. Median $\pm 1 \sigma$ spectral shapes for $M \approx 6.5$, $R = 0-50$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ ($7.0-7.0+$), $R=0-50$ KM, ROCK
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 17.60 KM

LEGEND
 — 50TH PERCENTILE
 - - - 16TH PERCENTILE
 - . - 84TH PERCENTILE

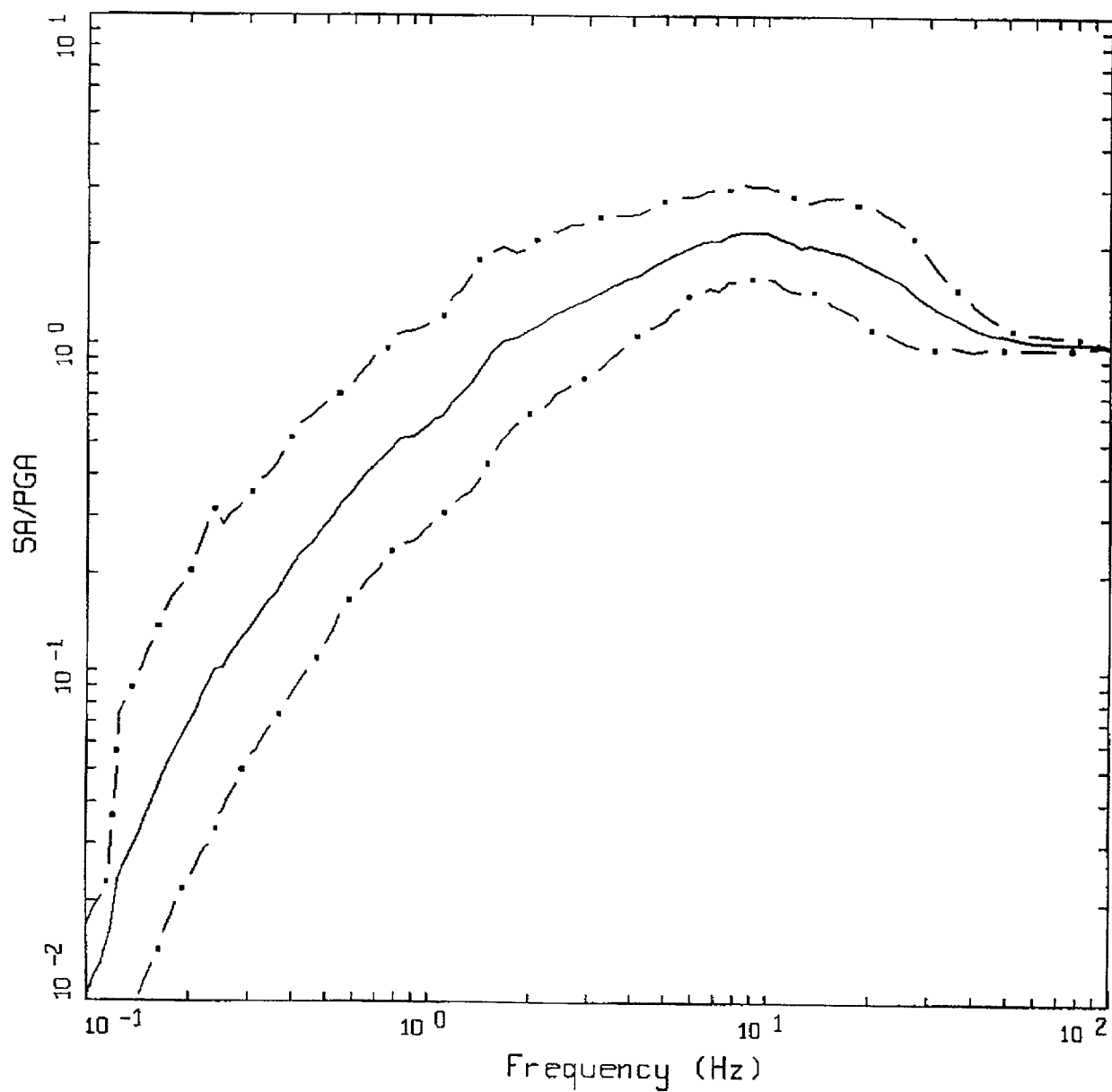
Figure C-57. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-50$ km, vertical, WUS rock.



AVERAGE VERTICAL SPECTRA
 $M=5.5$ (5.0-6.0), $R=0-50$ KM, SOIL
 AVERAGE $M = 5.69$, AVERAGE DISTANCE = 21.10 KM

LEGEND
 — 50TH PERCENTILE
 - · - 16TH PERCENTILE
 - · - 84TH PERCENTILE

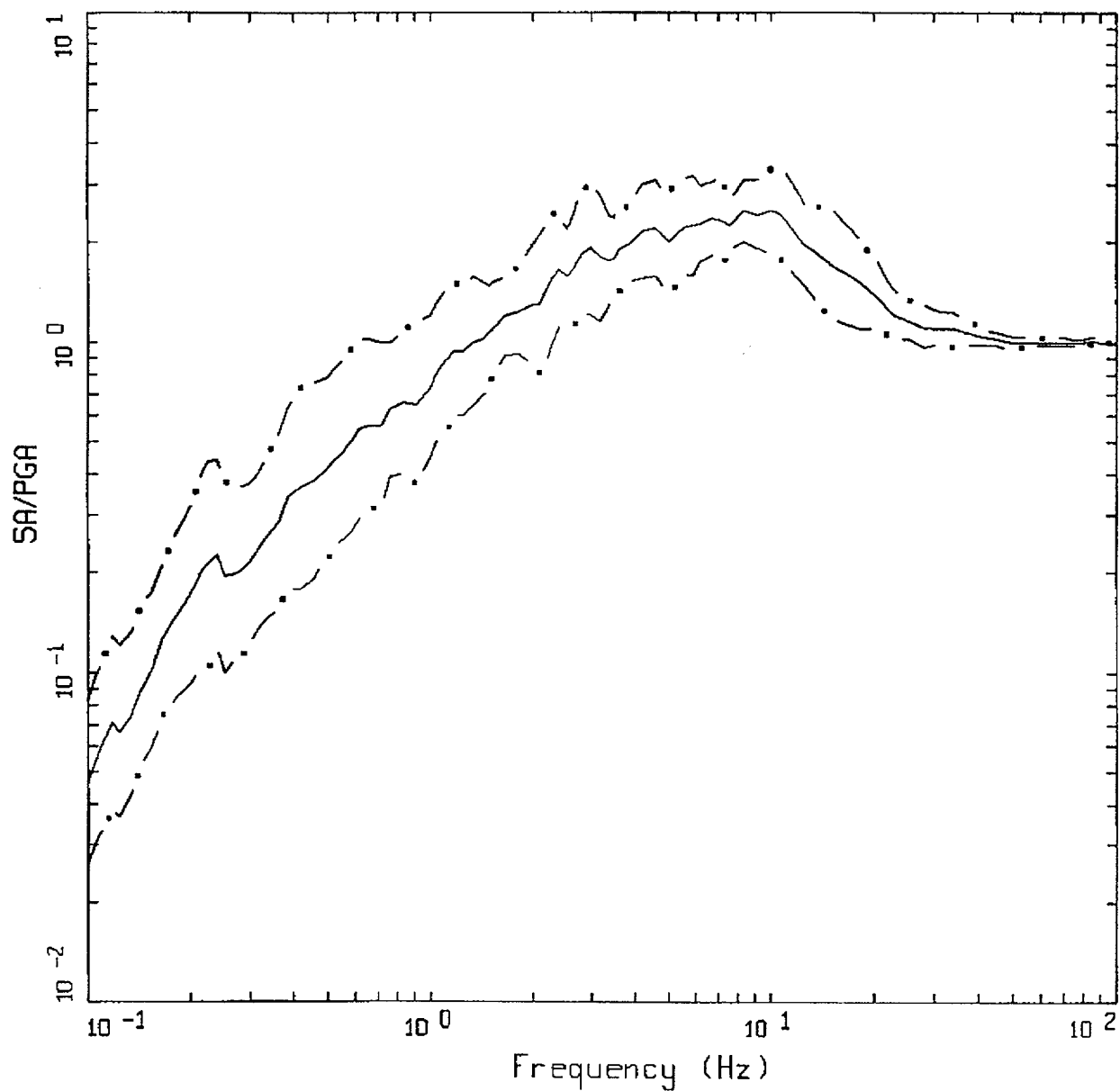
Figure C-58. Median $\pm 1 \sigma$ spectral shapes for $M \approx 5.5$, $R = 0-50$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=6.5$ (6.0-7.0), $R=0-50$ KM, SOIL
 AVERAGE $M = 6.37$, AVERAGE DISTANCE = 25.50 KM

LEGEND
 — 50TH PERCENTILE
 - · - 16TH PERCENTILE
 - · - 84TH PERCENTILE

Figure C-59. Median $\pm 1\sigma$ spectral shapes for $M \approx 6.5$, $R = 0-50$ km, vertical, WUS soil.



AVERAGE VERTICAL SPECTRA
 $M=7.5$ (7.0-7.0+), $R=0-50$ KM, SOIL
 AVERAGE $M = 7.27$, AVERAGE DISTANCE = 31.82 KM

LEGEND
 — 50TH PERCENTILE
 - . - 16TH PERCENTILE
 - . . 84TH PERCENTILE

Figure C-60. Median $\pm 1 \sigma$ spectral shapes for $M \approx 7.5$, $R = 0-50$ km, vertical, WUS soil.