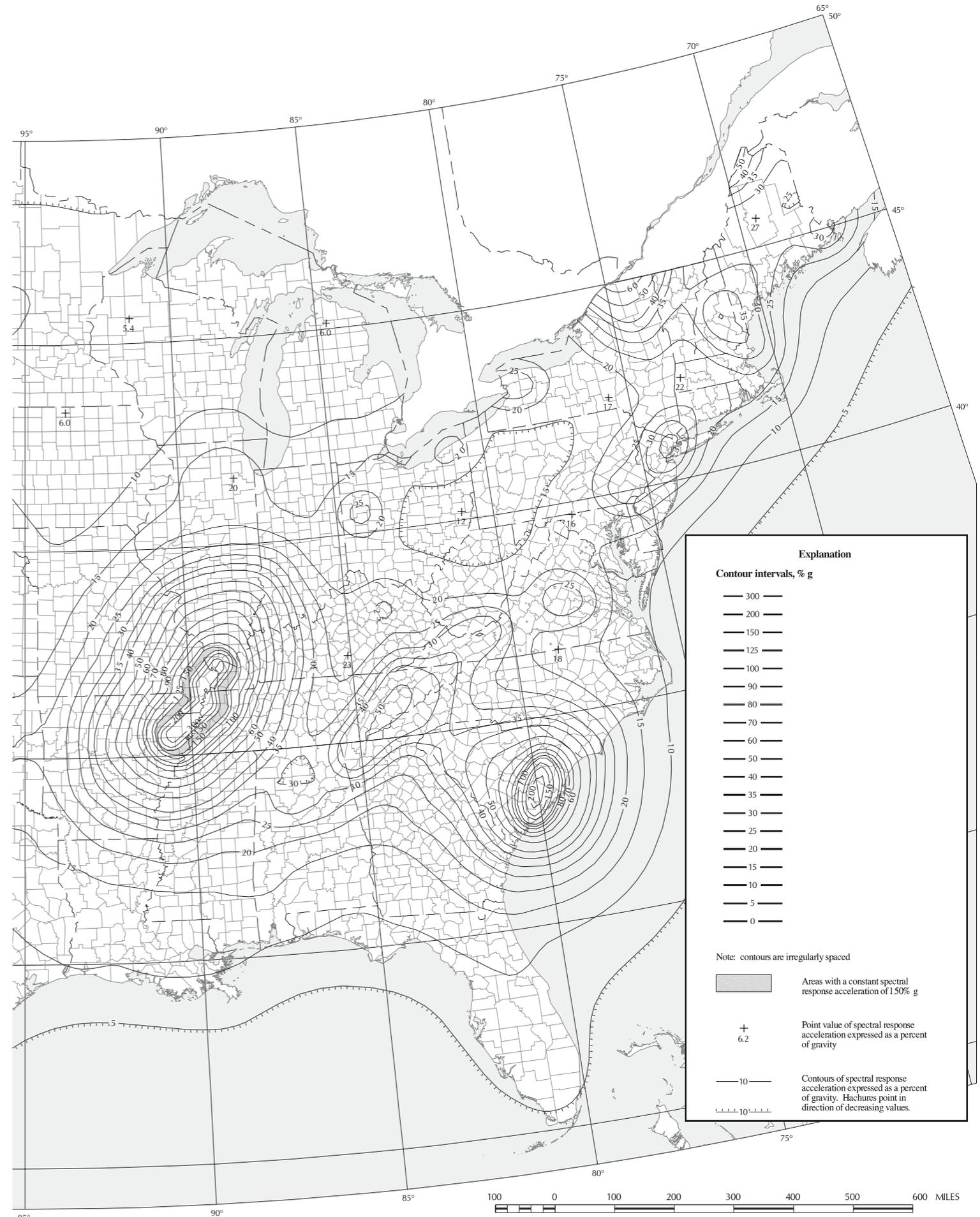
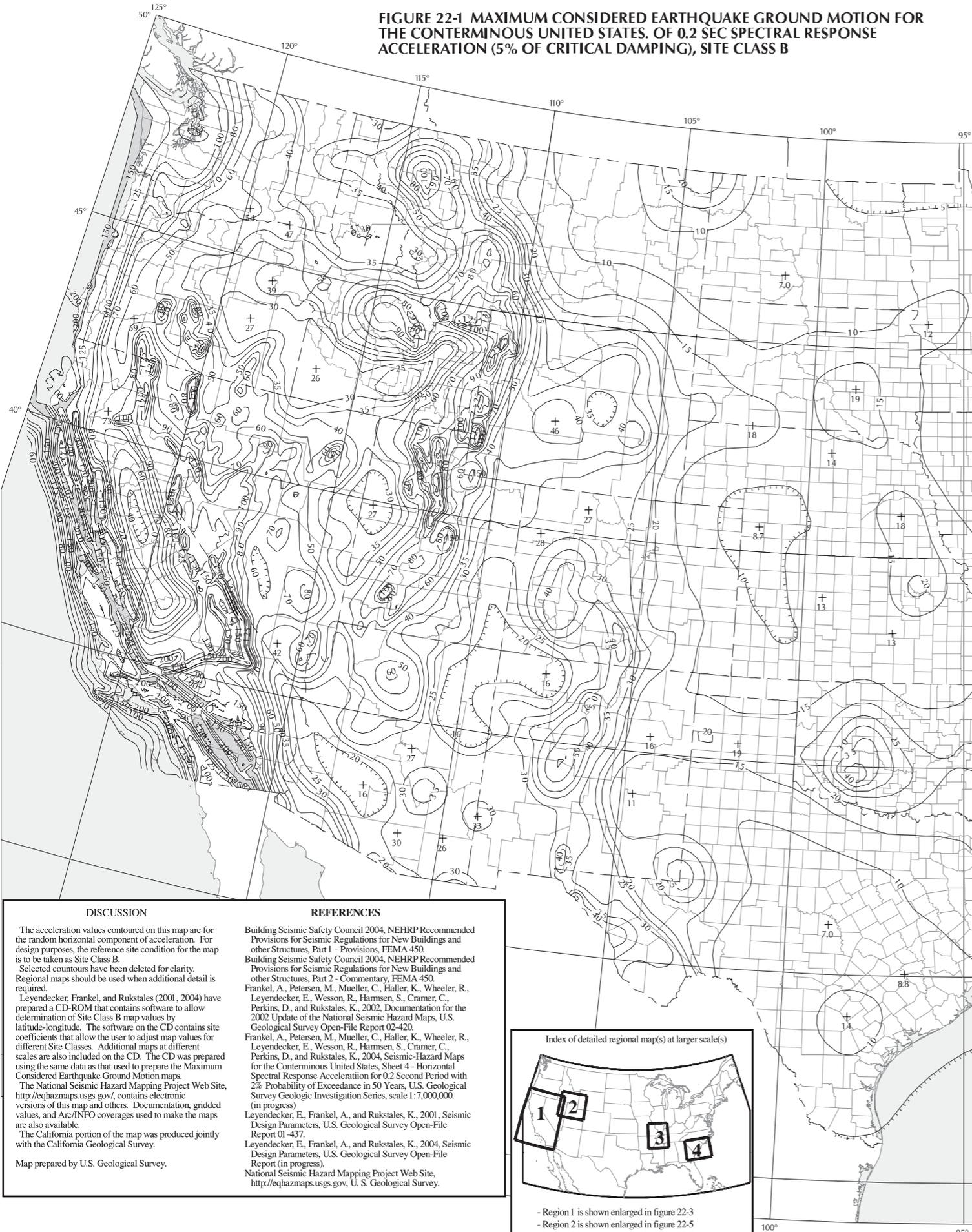


**FIGURE 22-1 MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION FOR THE CONTERMINOUS UNITED STATES. OF 0.2 SEC SPECTRAL RESPONSE ACCELERATION (5% OF CRITICAL DAMPING), SITE CLASS B**



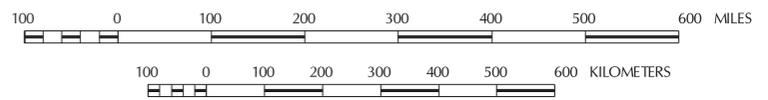
**Explanation**

**Contour intervals, % g**

- 300 —
- 200 —
- 150 —
- 125 —
- 100 —
- 90 —
- 80 —
- 70 —
- 60 —
- 50 —
- 40 —
- 35 —
- 30 —
- 25 —
- 20 —
- 15 —
- 10 —
- 5 —
- 0 —

Note: contours are irregularly spaced

- Areas with a constant spectral response acceleration of 150% g
- Point value of spectral response acceleration expressed as a percent of gravity
- Contours of spectral response acceleration expressed as a percent of gravity. Hachures point in direction of decreasing values.



**DISCUSSION**

The acceleration values contoured on this map are for the random horizontal component of acceleration. For design purposes, the reference site condition for the map is to be taken as Site Class B.

Selected contours have been deleted for clarity. Regional maps should be used when additional detail is required.

Leyendecker, Frankel, and Rukstales (2001, 2004) have prepared a CD-ROM that contains software to allow determination of Site Class B map values by latitude-longitude. The software on the CD contains site coefficients that allow the user to adjust map values for different Site Classes. Additional maps at different scales are also included on the CD. The CD was prepared using the same data as that used to prepare the Maximum Considered Earthquake Ground Motion maps.

The National Seismic Hazard Mapping Project Web Site, <http://eqhazmaps.usgs.gov/>, contains electronic versions of this map and others. Documentation, gridded values, and Arc/INFO coverages used to make the maps are also available.

The California portion of the map was produced jointly with the California Geological Survey.

Map prepared by U.S. Geological Survey.

**REFERENCES**

Building Seismic Safety Council 2004, NEHRP Recommended Provisions for Seismic Regulations for New Buildings and other Structures, Part 1 - Provisions, FEMA 450.

Building Seismic Safety Council 2004, NEHRP Recommended Provisions for Seismic Regulations for New Buildings and other Structures, Part 2 - Commentary, FEMA 450.

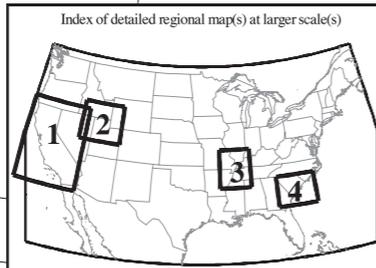
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Leyendecker, E., Frankel, A., and Rukstales, K., 2001, Seismic Design Parameters, U.S. Geological Survey Open-File Report 01-437.

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- Region 1 is shown enlarged in figure 22-3
- Region 2 is shown enlarged in figure 22-5
- Region 3 is shown enlarged in figure 22-7
- Region 4 is shown enlarged in figure 22-9