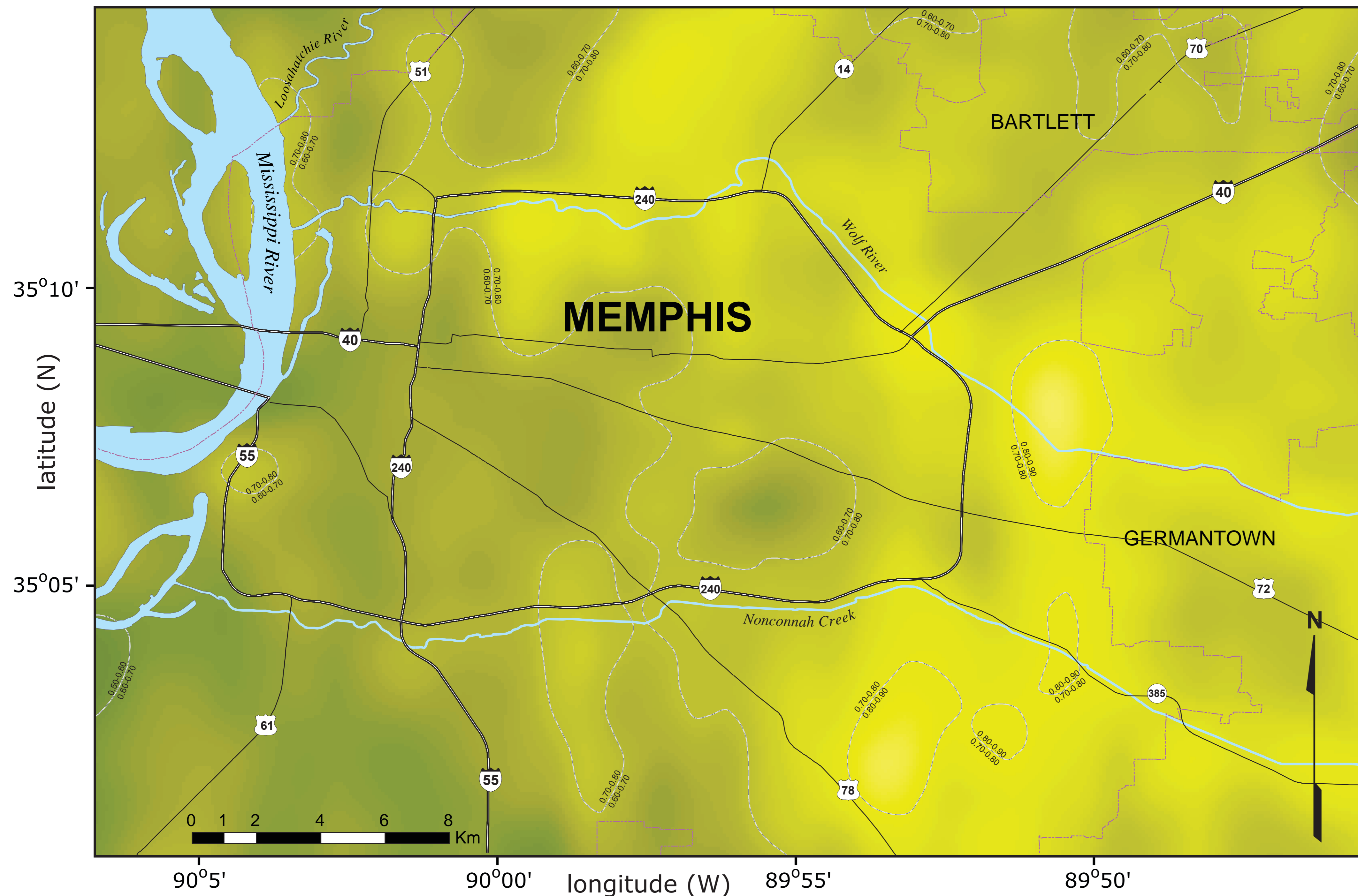
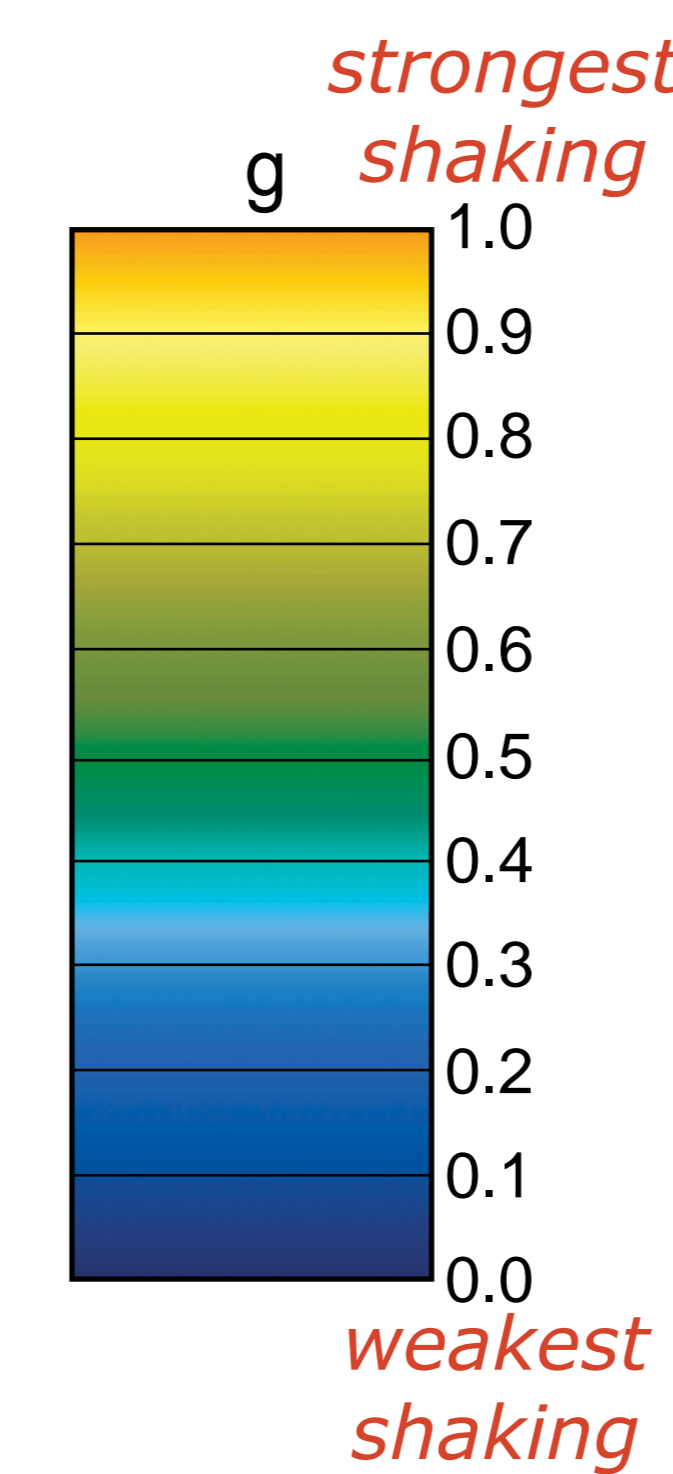
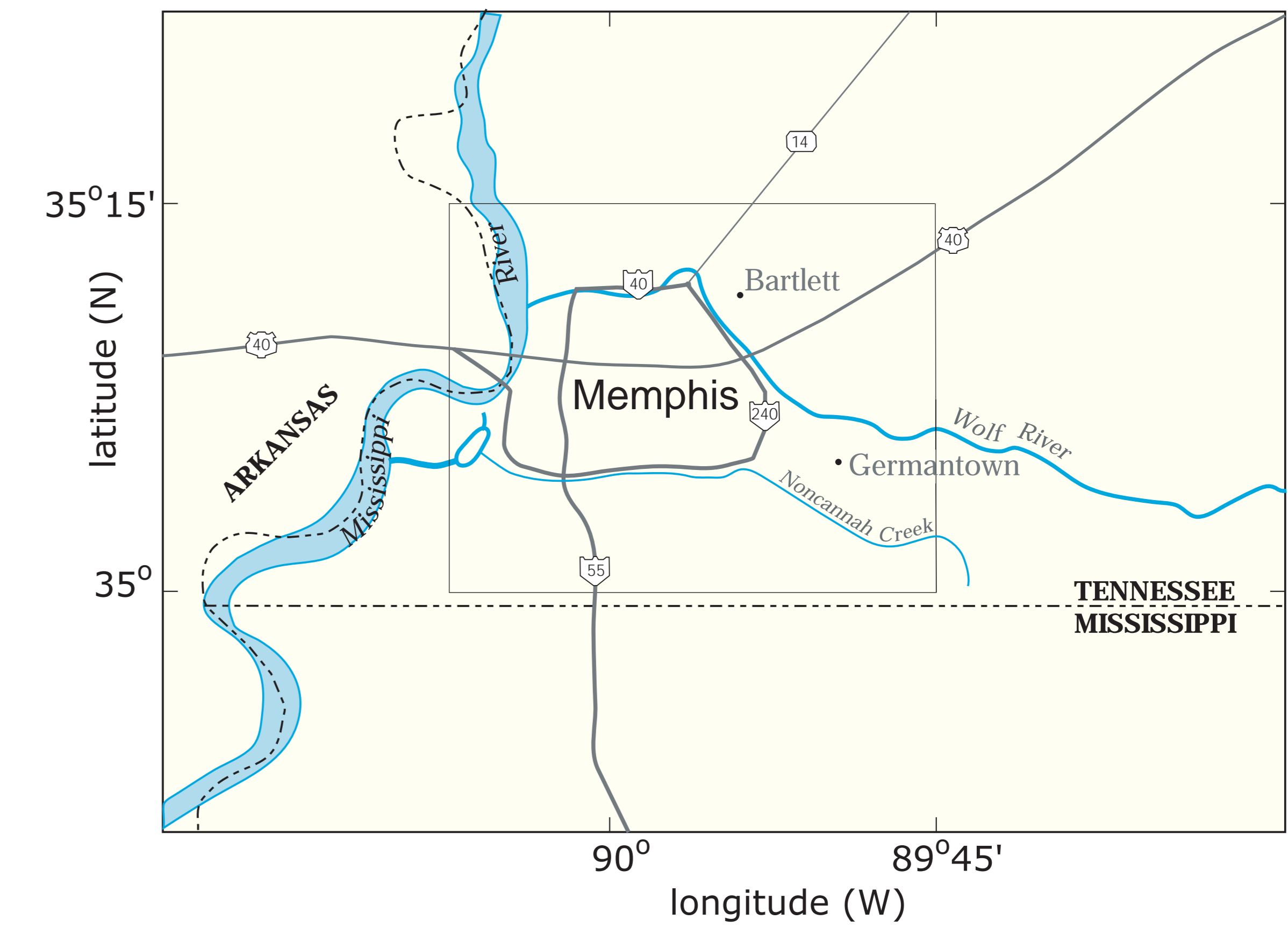


0.2 Second Period Spectral Accelerations



The map above is a probabilistic one, showing the levels of shaking that have a 2% chance of being exceeded in any 50 year period. These shaking estimates account for all possible earthquakes and their different likelihoods of occurring. This particular map shows the shaking expected in a structure with a natural frequency of 0.2 second, corresponding to a relatively short structure such as a single-family dwelling.

The Memphis, Shelby County seismic hazard maps show expected earthquake ground shaking levels, or ground motions, with variations shown as different colors. Ground motions are expressed as accelerations in *gravity* or *g* units. *Probabilistic* maps show the ground motion levels with a certain change of being exceeded in 50 years, and account for all possible earthquake sources. *Deterministic* or *scenario* maps shows the shaking levels expected for a single, specific earthquake.



Map Index

Peak Acceleration				
0.2 Second Period Spectral Acceleration				
1.0 Second Period Spectral Acceleration				
	10% Probability 2% Probability		Magnitude 7.7 Magnitude 6.2	
	Probabilistic Maps		Deterministic Maps	
	(5% maps also are available)			

Locations of most of the earthquakes that have occurred since the mid-1970s (black dots) and the major faults (white lines) in the New Madrid seismic zone. The darker area is covered by thick sediments, which significantly affect ground shaking levels.

