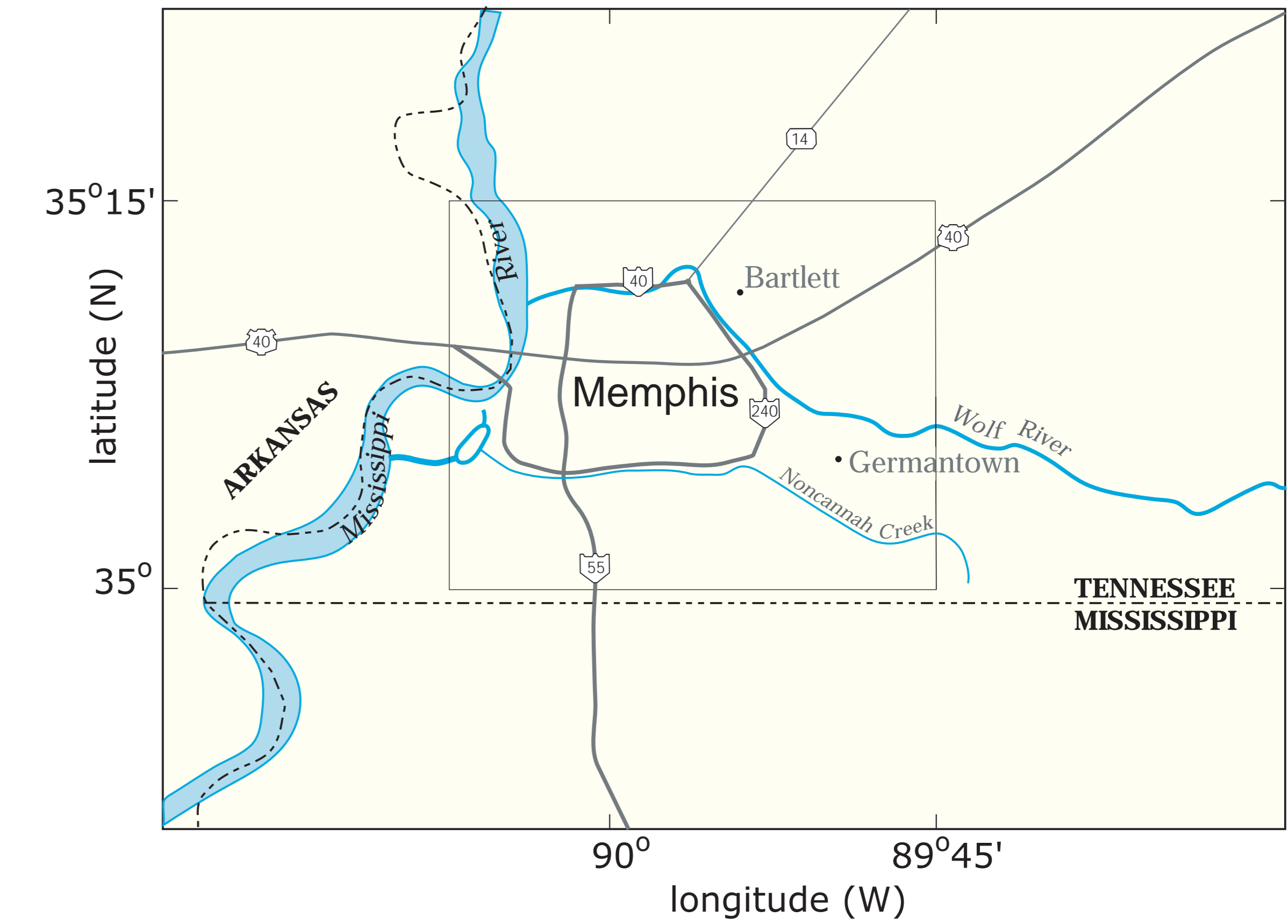


The Memphis, Shelby County seismic hazard maps show expected earthquake ground shaking levels, or ground motions, with variations shown as different colors. Ground motions are expressed as accelerations in *gravity* or *g* units. *Probabilistic* maps show the ground motion levels with a certain change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

