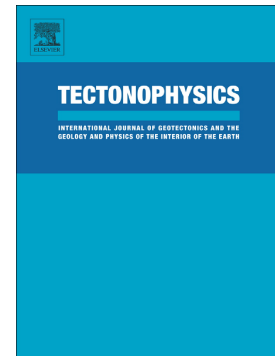


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## The new Central American seismic hazard zonation: Mutual consensus based on up to day seismotectonic framework

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### Abstract

Central America is one of the most active seismic zones in the World, due to the interaction of five tectonic plates (North America, Caribbean, Coco, Nazca and South America), and its internal deformation, which generates almost one destructive earthquakes ( $5.4 \leq M_w \leq 8.1$ ) every year. A new seismological zonation for Central America is proposed based on seismotectonic framework, a geological context (tectonic and geological maps), geophysical and geodetic evidence (gravimetric maps, magnetometric, GPS observations), and previous works. As a main source of data a depurated earthquake catalogue was collected covering the period from 1522 to 2015. This

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