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Title:

A High-Resolution Seismic Structure Model of Southern California Crust Imaged Through Full-3D Tomography and Its Potential Applications

Abstract:

The need of a high-resolution crustal model for more reliable seismic hazard assessments motivates the implementation of full-3D tomography (F3DT) for Southern California. Many features in our latest model, CVM-S4.26, agree well with independent geological and geophysical observations, including surface geology, 3D fault models, gravity observations, and results from previous controlled-source seismic surveys. The synthetic seismograms computed using CVM-S4.26 show substantially better fit to observed waveforms than those computed using other 3D models with lower resolution. CVM-S4.26 provides high-resolution images for regional geological research and is potentially useful for providing more reliable seismic hazard assessments in Southern California.