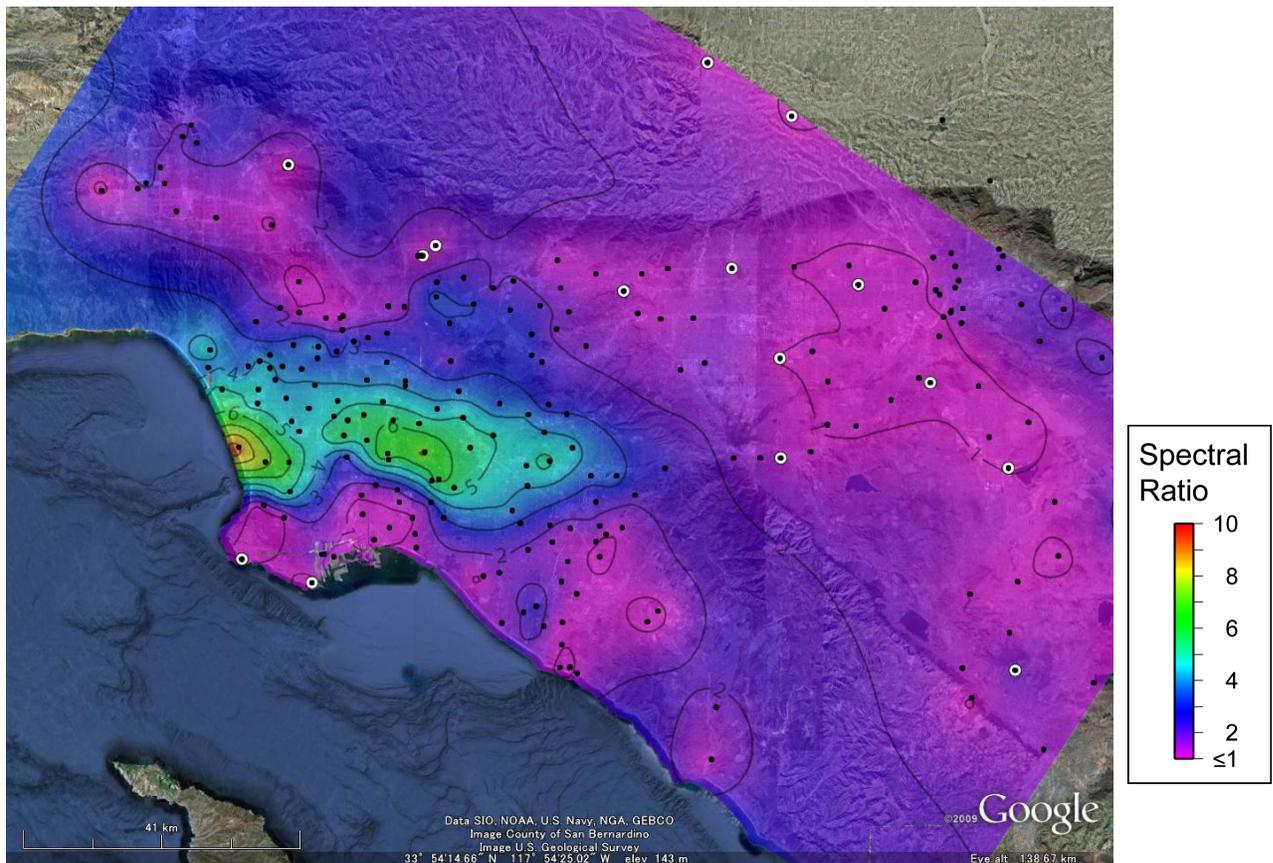


Long-period (3-10 s) strong ground motions during the Mw 8.0 2003 Tokachi-oki Japan and Mw 7.2 2010 El-Mayor Cucapah earthquakes



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