



SH-wave synthetics for west-east sections through the deepest points of the Reno and Las Vegas basins. V_S and density sections were constructed from basin depth maps, assuming $\nu=0.25$ and basin-density relations from Blakely et al. (1999). 2-d seismograms were computed with the method of Vidale et al. (1985) for a simple one-sided impulse source at 8 km depth, 2 km from the western edge of each model. Note the generation of strong Love-wave trains at the basin edges closest to the sources, as Vidale and Helmberger (1988) produced with similar synthetics for the 1971 San Fernando earthquake. Maximum SH displacements are 2 or 3 times larger over the basins than over bedrock, even in the relatively small Reno basin. The 4-km-deep Las Vegas basin produces horizontal reverberations that continue more than 80 seconds.

