



Shear-wave velocity estimates at Lovejoy Butte and Mill Creek Summit, southern California, from noise recordings on 200-m linear arrays of refraction geophones. (a) and (b) show noise energy ratios in the slowness-frequency (p-f) domain for Lovejoy Butte (LJB) and Mill Creek Summit (MCS), respectively. The picked p-f triples are centered on a lower-velocity envelope containing dispersive surface-wave energy, with high and low-velocity limits of a reasonable interpretation. (c) compares the p-f picks at the two locations, and shows modeled dispersion curves. (d) shows velocity models fitting the central dispersion picks as well as the high- and low-velocity limits.