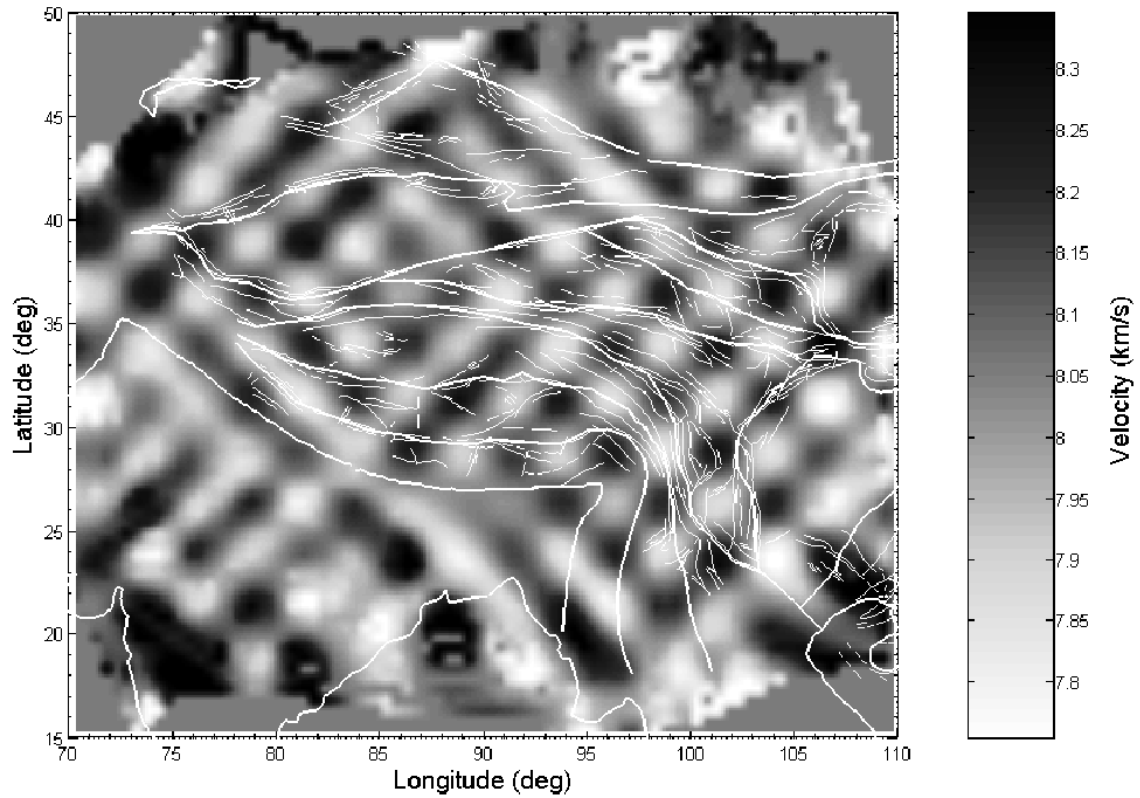
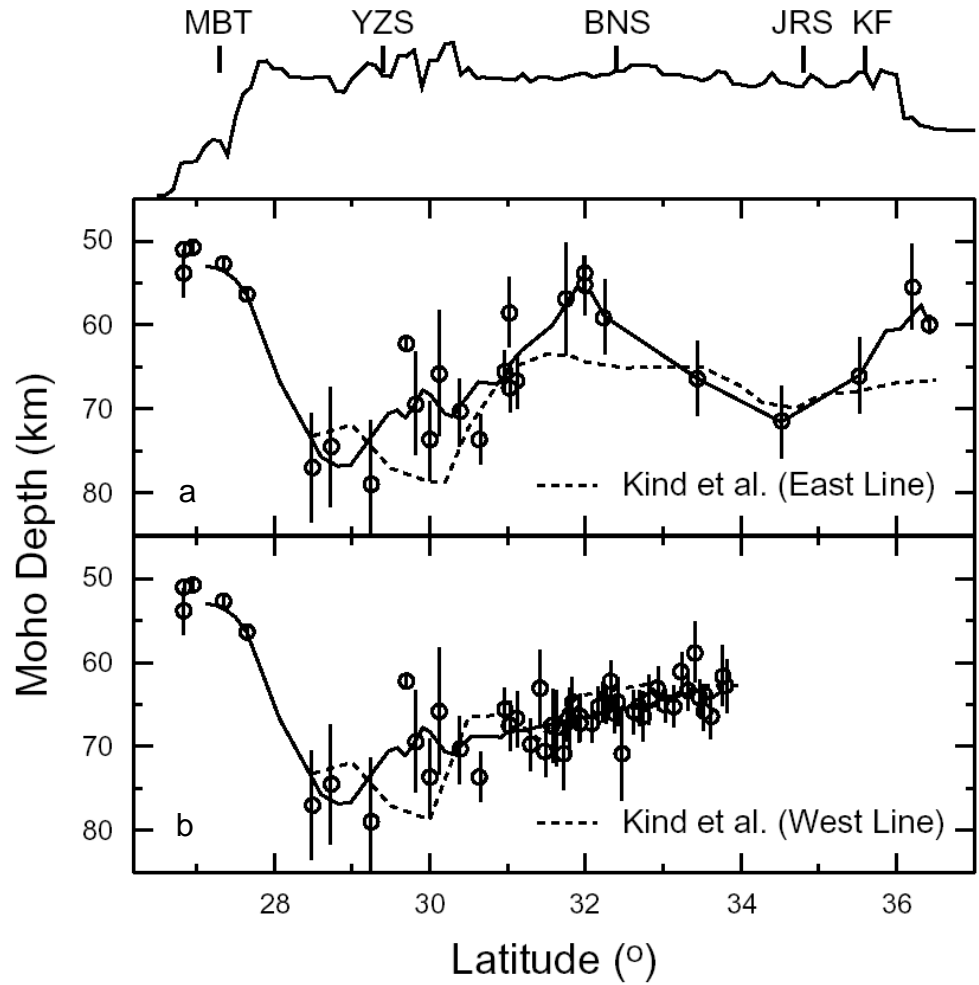


Auxiliary material Figure S1. Distribution of earthquakes (dots) and stations (invert triangles) used in this study.



Auxiliary material Figure S2. Checkerboard resolution test on Pn velocity. The input is a sinusoidal pattern of 2.5° in half wavelength. The input velocity has an amplitude of +/- 0.3 km/s with respect to a background velocity of 8.06 km/s.



Auxiliary material Figure S3. Crustal thickness along the east (a) and west (b) profiles of INDEPTH experiments across the central Tibet (see Figure 3). Circles are data from each station delay. Vertical bars are standard error estimated from the error of the station delays. Solid line is a moving average of the data. Dashed line from the crust thickness estimates from receiver functions by *Kind et al.* [2002]. On the top of the figure is the topographic relief (not scaled) across the central Tibet with major boundaries marked.