

## **Pseudowave Velocity Tomography of the Uppermost Mantle beneath China**

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We have obtained pseudowave velocity images of the uppermost mantle beneath China by performing tomographic inversion of travel time differences between Sn and Pn. The arrival pairs were selected from the Annual Bulletin of Chinese Earthquakes of 1984-2005. The data set included 50,136 arrival pairs from 11,470 earthquakes recorded by 116 stations. Average pseudowave velocities are 10.6 km/s. The preliminary tomographic result show that: the pseudowave velocity is high in Tarim and Junggar basins, Ordos cration, southern region to Sichuan basin, and Taiwan Strait, however, the pseudowave velocity is low in North China, the North-South Seismic Zone, and the central and western Tibetan Plateau. The pattern is very similar with distribution of Pn and Sn velocities.