

Description of the Maps:

(1) Shen, W., M.H. Ritzwoller, D. Kang, Y. Kim, J. Ning, F.-C. Lin, W. Wang, Y. Zheng, and L. Zhou, A seismic reference model for the crust and uppermost mantle beneath China from surface wave dispersion, *Geophys. J. Int.*, submitted, 2015.

Properties:

Location: E. Asia including China and periphery seas, the Korean Peninsula, the Sea of Japan, and Japan;

Grid: 0.5x0.5

Stations: CEArray, China Array, Korean Seismic Network, NECESS Array, PASSCAL arrays, and KNET.

Data: Rayleigh wave phase and group measurements.

Tomography:

Ambient Noise: ray theory (Barmin et al., 2001), 8-50 sec

Earthquakes: Eikonal/Helmholtz tomography for phase velocity in certain areas, 30-70 sec.

Format of phase/group velocity map file: China_2015_Vs_v1.0.tar

Maps are presented in a sub-directory in which every period for Rayleigh phase and group speeds is in a separate file. The speed type (phase and group speeds) and the period (in sec) are indicated in the title of the file. There are four columns in each file, representing:

- (1) longitude (deg)
- (2) latitude (deg)
- (3) phase or group speed (km/s)
- (4) speed uncertainty (scaled from eikonal tomography and resolution, km/s)