

Yang, Y., M.H. Ritzwoller, Y. Zheng, A.L. Levshin, and Z. Xie, A synoptic view of the distribution and connectivity of the mid-crustal low velocity zone beneath Tibet, *J. Geophys. Res.*, 117, B04303, doi:10.1029/2011JB008810, 2012.

Properties:

Location: Tibet

Grid: 1°x1°

Stations: CEArray, GSN, PASSCAL

Data: Rayleigh wave phase speeds.

Ambient noise: 2003-2009

Earthquakes: NA

Tomography:

Ambient noise: ray theory (Barmin et al., 2001), 10-50 s

Earthquakes: NA

Parameterization: sediment layer, 4 crustal B-splines, 5 B-splines in the mantle

Inversion: Monte Carlo model space sampling.

Forward code: Herrmann

Moho: variable

Format of model file: Yang_Tibet_2012.zip

The model is broken into a set of 1-D models found in separate data files, for each location. The location is actually in the name of each file; e.g., 100_30_model, for (lat, lon) = (30, 100). The model has been interpolated onto a fine vertical grid for plotting purposes. The first four km are presented here:

z (km)	Vsv	error
0.2	3.09507	0.163476
0.4	3.09507	0.163476
0.6	3.09507	0.163476
0.8	3.09507	0.163476
1	3.09507	0.163476
1.2	3.09507	0.163476
1.4	3.09507	0.163476
1.6	3.09507	0.163476
1.8	3.10979	0.15536
2	3.1739	0.111381
2.2	3.1853	0.099141
2.4	3.1853	0.099141
2.6	3.1853	0.099141
2.8	3.1853	0.099141
3	3.1853	0.099141
3.2	3.1853	0.099141
3.4	3.1853	0.099141
3.6	3.19628	0.0942503
3.8	3.21989	0.0847934
4	3.24422	0.0672854

The first column is depth below the surface in km. The second column is V_{sv} in km/s. The third column is model uncertainty in km/s. Unlike some of our models, we don't include repeated knots in this one to specify layer boundaries, like the Moho. Also, we do not include in this file crustal thickness and its uncertainty, although these are computed quantities.