

These are 14 min presentations, I will be fairly strict with timing (i.e., you may be chased) if it spills over. The first 5 (in order) will be fully/partially presented on Oct 22, Tuesday, and the second batch on Thursday of the same week. Must be on time for class and presenters come at least 4-5 minutes earlier to upload presentation. To save time, lateness for presentation or participation may be penalized against your score. Typical style is to use power points, but you are free to choose whichever means. Key formulations, concepts and results of the papers should be explained.

1. Ryberg, T., K. Fuchs, A. V. Egorkin, L. Solodiloy, Observation of high-frequency teleseismic P_n on the long-range Quartz profile across northern Eurasia, *Journal of Geophysical Research*, vol. 100, NO. B9, PP. 18,151-18,163, 1995 doi:10.1029/95JB01691. (Daniel)

2. Zhu, L. P., H. Kanamori, Moho depth variation in southern California from teleseismic receiver functions, *Journal of Geophysical Research*, DOI:10.1029/1999JB900322. (Arif)

3. Revenaugh, J., T. Jordon, Mantle Layering From ScS Reverberations 3. The Upper Mantle, *Journal of Geophysical Research*, vol. 96, NO. B12, PP. 19,781-19,810, 1991 doi:10.1029/91JB01487. (Tariq)

4. Song, X.D. and A.Y. Li, Support for differential inner core superrotation from earthquakes in Alaska recorded at South Pole station *Journal of Geophysical Research*, vol. 105, 623-630, 2000. (Reza)

5. Shearer, P., Global mapping of upper mantle reflectors from long-period SS precursors, *Geophysical Journal International*, DOI: 10.1111/j.1365-246X.1993.tb01499.x, 1993. (Sibiao)

6. Su, W.- J., R. Woodward, and A. M. Dziewonski, degree-12 model of shear velocity heterogeneity in the mantle, *Journal of Geophysical Research* DOI: 10.1029/93JB03408, 1994. (Xiwei)

7. Zhang, Yu-Sheng, T. Lay, Global Surface wave phase velocity variations, *Journal of Geophysical Research*, 101, B4, 8415-8436. (Ramin)

8. Gu, Y., S. Webb, A. Lerner-Lam, J. B. Gaherty, Mantle structure beneath the eastern Pacific Ocean ridges, *Journal of Geophysical Research*, 110, B06305, doi:10.1029/2004JB00338, 2005. (Yunfeng)

9. Ishii, M. and J. Tromp, Constraining large-scale mantle heterogeneity and inner-core sensitive normal modes, *Physics of the Earth and Planetary Interiors*, 146, 113-124. (Ruijia)