

Principales références bibliographiques 2012

B. Romanowicz - Chaire de Physique de l'Interieur de la Terre -

Cours # 2

Albarède, and R. van der Hilst (1999) New mantle convection model may reconcile conflicting evidence, *EOS*, 80, 535-539.

Allègre, C. (2008) Isotope Geology, Cambridge U. Press.

Boyet, M., and R. W. Carlson (2005), 142Nd evidence for early (>4.53 Ga) global differentiation of the silicate Earth, *Science*, 309, 576–581, doi:10.1126/science.1113634.

Dziewonski, A. M., V. Lekic and B. Romanowicz (2010) Mantle Anchor Structure: an Argument for Bottom up Tectonics, *Earth and Planetary Science Lett.*, 299, 69-79.

Fukao, Y. et al. (2009) Stagnant slab: a review, *Ann. Rev. Earth Planet. Sci.*, 3, 19-46.

Lay, T., J. Hernlund and B. Buffett (2008) Core-mantle boundary heat flow. *Nat. Geosci.* 1:25–32

Lebedev S, Chevrot S, van der Hilst RD. 2002. Seismic evidence for olivine phase changes at the 410- and 660-kilometer discontinuities. *Science* 296:1300–2
Lekic, V. and B. Romanowicz (2011) Inferring mantle structure by full waveform tomography using the Spectral Element Method, *Geophys. J. Int.*, 185, 799-831, doi: 10.1111/j.1365-246X.2011.04969.x.

Parman, S. W. Helium isotopic evidence for episodic mantle melting and crustal growth. *Nature* 446, 900–903 (2007).

Richards, M.A., Duncan, R.A., Courtillot, V.E., 1989. Flood basalts and hot-spot tracks — plume heads and tails. *Science* 246, 103–107.

Replumaz A, Karason H, van der Hilst RD, Besse J, Tapponnier P. (2004) 4-D evolution of SE Asia's mantle from geological reconstructions and seismic tomography. *Earth Planet. Sci. Lett.* 221:103–15

Romanowicz, B., and Y. Gung (2002) Superplumes from the core-mantle boundary to the lithosphere: implications for heat flux, *Science*, 296(5567), 513-516.

van der Hilst RD, Widjiantoro S, Engdahl ER. (1997) Evidence for deep mantle circulation from global tomography, *Nature* 386:578–84

Vasco, D. and L. Johnson (1998)

Woodhouse J. H. and A. M. Dziewonski (1984) Mapping the upper mantle: three-dimensional modeling of earth structure by inversion of seismic waveforms, *J. Geophys. Res.*, **89**, 5953-5986, 1984.

Workman, R. (2005)