

Reading assignment Hager and O'Connell (17/03/1998)

All should read pp. 164-180 of the Davies and Richards (1992) paper.

Interaction of slabs with transition zone.

- Kincaid, C. and P. Olson, An experimental study of subduction and slab migration, *J. Geophys. Res.*, **92**, 13832-13840, 1987.
- Christensen, U.R., Influence of chemical buoyancy on the dynamics of slabs in the transition zone, *J. Geophys. Res.*, **102**, 22435-22443, 1997.

Avalanches

- Solheim, L. P. and W. R. Peltier, Avalanche effects in phase transition modulated thermal convection: A model of Earth's mantle, *J. Geophys. Res.*, **99**, 6997-7018, 1994.
- Tackley, P. J., D. J. Stevenson, G. A. Glatzmaier and G. Schubert, Effects of an endothermic phase transition at 670 km depth in a spherical model of convection in the Earth's mantle, *Nature*, **361**, 699-704, 1993.

Effect of Plates and radial variations in viscosity.

- Puster, P., B.H. Hager, and T.H. Jordan, Mantle convection experiments with evolving plates, *Geophys. Res. Lett.*, **22**, 2223-2226, 1995.
- Bunge, H.-P., M.A. Richards, and J.R. Baumgardner, The effect of viscosity stratification on mantle convection, *Nature*, **379**, 436-438, 1996.