

Reading assignment Van der Hilst (31/03/1998)

Following are three short papers for the presentations. In addition to this, all should read the review paper by Thorne Lay:

Lay, T., The fate of descending slabs, *Annu. Rev. Earth Planet. Sci.*, 22, 33-61, 1994.

NB. With the exception of the Wick & Richards paper, copies of all paper are in the file holder at my door. If you take these to make xeroxes,

PLEASE RETURN THEM so that others can use them too!

Interaction of slabs with transition zone:

- Van der Hilst, Complex morphology of subducted lithosphere in the mantle beneath the Tonga trench, *Nature*, **374**, 154-157, 1995.

Topography of 660 km discontinuity:

- Wicks, Jr., C. W, and M. A. Richards, A detailed map of the 660-km discontinuity beneath the Izu-Bonin subduction zone, *Science*, **261**, 1424-1427, 1993.

Chemical boundary?

- Castle, J., and K. C. Creager, Seismic evidence against a mantle chemical discontinuity near 660 km depth beneath Izu-Bonin *Geophys. Res. Lett.*, **24**, 241-244, 1997.