

SEGREGATION OF OCEANIC PLATE CRUST ON MANTLE BOTTOM

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Abstract. The results of numerical modeling for mantle thermo-chemical convection are presented. They explain the reason of different chemical composition of ocean ridges and hot spot magma. Oceanic ridges suck in the matter from upper part of mantle. The plumes of hot spots arose from mantle bottom as a result of mixing of primordial matter of D'' layer and segregated crust of oceanic plates.

Keywords: crust, plates, convection, mantle.