

The origin of Sluggish Lid convection

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Sluggish Lid convection is considered by the surface motion of the planet[Kameyama,1998]. This result is obtained by numerical experiment of convection with only basal-heating. Then we carried out the numerical experiment of thermal convection with temperature dependent viscosity in internal heating.

This results that Sluggish lid convection can be occurred to active upwelling from hot thermal boundary layer.