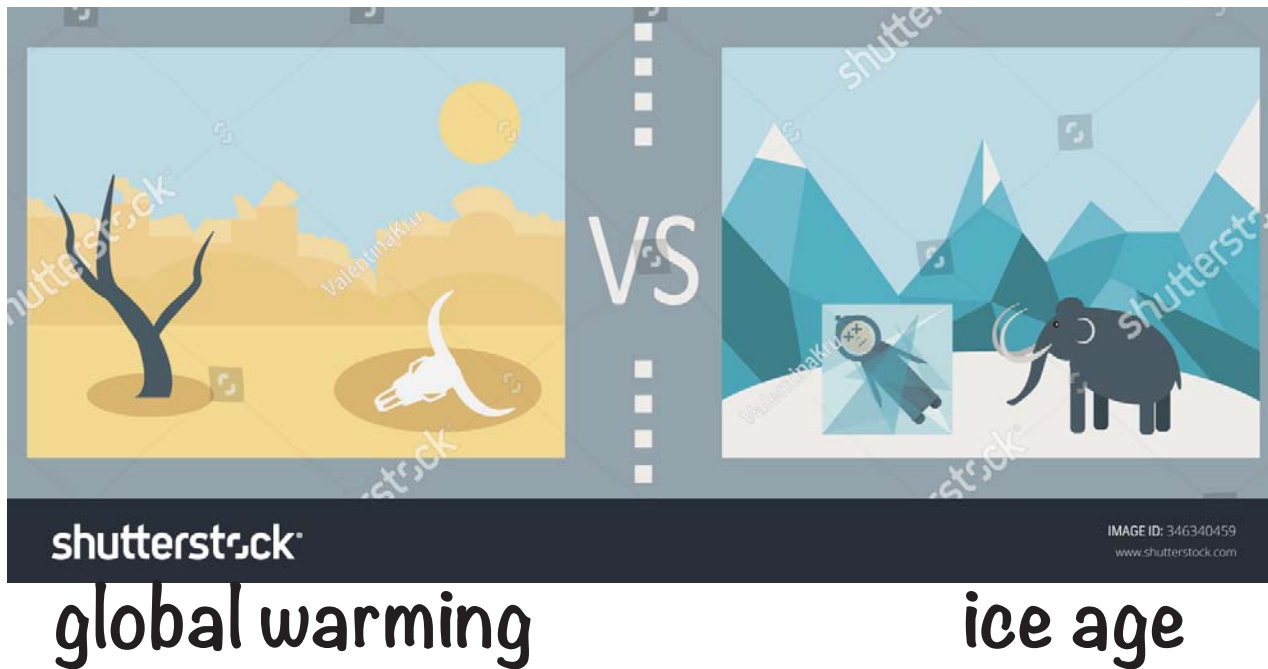
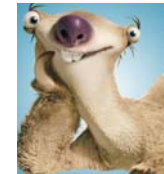


# Role of Mixing in Past & Future Climate Change

Ali Mashayek



Mixing plays a key role in facilitating the deep branch of ocean circulation which is responsible for exchange of heat between the atmosphere and ocean as well as for redistribution of heat across the globe. This project uses theory and a simple 2D ocean model to explore the mixing-induced changes to the circulation in different climates such as that of the glacial periods or a warm climate we might be heading towards