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New perspective of submarine landslide

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Submarine landslide is motived for disaster prevention in recent. However, detailed slip monitoring at deep seafloor is much harder than the on-land situation. In most cases, even the tomographic change before and after the landslide event has not been estimated. And the basic conditions including soil mechanics and pore fluid pressure are not uncertain under deep sea water. The pore fluid pressure and seismic acceleration are believed as major trigger for slipping, and pore fluid pressure may concern with rain precipitation on landslide. Submarine sediment is saturated with water and the mechanism of pore fluid rise is uncertain in sub-seafloor. This presentation review the previous studies of surface sediment movement, ground deformation based on science-technology viewpoint, and shows new perspective of submarine landslide.

Keywords: Submarine landslide, Soil mechanics, Simulation