Numerical Analysis on Seabed Ground Deformation in Methane Hydrate Production

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To produce methane gas from methane hydrate safely and without damaging the environment, it is necessary to address many wide-ranging environmental issues. One of them is to assess seabed deformation during methane gas production. We are investigating if the deformation of seabed ground occurs in production of methane gas from methane hydrate. In this study the sensitivity analysis for various parameters which have an effect on ground deformation were performed. From the results of analyses a degree of effect on ground deformation of each parameters were investigated. The authors will acknowledge the Research Consortium for Methane Hydrate Resources in Japan for the support in this study.