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A Basic Study on Response Characteristics and Draft Effect of Aircushion Supported Floating Bodies in Regular Waves -Model experiments and formulation of 3D theory for analyzing hydrodynamic forces-

[Tomoki Ikoma](#), [Koichi Masuda](#), [Chang-Kyu Rheem](#) and [Hisaaki Maeda](#)

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Summary: This paper describes the motion response reduction of floating structures by applying the aircushion supported system. Effects of the reduction are confirmed with model experiments in a wave tank. The two model types with aircushions are used to the experiments. One is mono-aircushion model and another one is tri-aircushion model. The response reduction can be confirmed from experimental results using both the models. We show the formulation for predicting hydrodynamic forces on aircushion type floating structures with three-dimensional effects, which are draft effect and so on. The validity of the theory and numerical calculation methods is confirmed.

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