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## Study of Ship Responses and Wave Loads in the Freak Wave

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**Summary:** In this study, we conducted tank experiment to measure ship responses to the Freak wave, Quasi Freak waves were generated utilizing focusing wave packet superposed on a regular wave train. Motion of the wave maker was determined in reference to wave simulations by our fully nonlinear numerical wave tank, NWT2D. An elastic model of a container ship was used to measure ship motions and whipping response. A time domain nonlinear strip method, SRSLAM, was used to simulate ship responses in the same incident waves. In this paper, the experimental and numerical results are presented and ship responses to the Freak wave are discussed

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