Study of a sea keeping software's accuracy in strong weather by comparison with experiment

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Van Walree Franz (Gestionnaire de projet)

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Résumé ou extrait : The purpose of this project was to check the capsizing prediction accuracy of the latest version of the sea keeping software FREDYN. We had data of model tests studied in basin, so we carried out simulations in the same conditions to compare the results. The accuracy was better than in the former versions, but yet very far from being exploitable capsizing predictions. We tried to improve the accuracy of input parameters (waves, hull geometry file...) to be closer to the experiment conditions. it appeared that this had little impact on the reliability of the software. We finally found that the lack of reliability was partly explicated by a wrong consideration of the quantity of water on deck. This quantity is overestimated due to the non-consideration of the diffraction effect of water on hull in the simulations.

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