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Circulation Water Tunnel Tests on Slewing Motion of a Towed Ship in Wind

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Summary: This paper describes circulation water tunnel tests for investigating the wind effects on the course stability of a towed barge. The tests on the slewing motion of the towed barge were carried out in various wind speeds and the directions. As a result, the followings were obtained: The course stability recovers in the range from beam to quartering wind even if the towed barge is unstable in no wind case. Namely, the barge is stably towed with keeping the certain heading/drift angle in the beam/quartering wind. The course stability of the towed ship is much affected by the hull steady condition in wind. The course stability reduces in head and following winds with higher speed even if the towed barge is stable. The features obtained in the experiments agreed well with the analysis results which have been presented in the previous paper. The measured results were used for validation of the simulation method presented by the authors. We confirmed that the prediction accuracy of the simulation method is sufficient in view of the practical use.

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