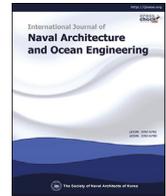




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Corrigendum to “[URANS prediction of hydrodynamic interaction between LHD and supply vessel during replenishment in calm water” 2019]



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The authors would like to correct [Missing Abstract].

This paper investigates the hydrodynamic interactions between a Landing Helicopter Dock (LHD) and a Supply Vessel (SV) in calm water during Replenishment At Sea (RAS) operations using an unsteady Reynolds Averaged Navier-Stokes (URANS) solver. Free surface wave patterns generated by the side-by-side ships are modelled with the Volume of Fluid (VOF) method. Initially, two benchmark ship-ship interaction cases are replicated and compared with model test data and computational results from other literature. The pressure distributions and interaction forces and moments exerted on the hulls show good correlation which implies the validity of the present computations. In addition, validation of single ship surge force has been performed against physical model scale test results. With the validated numerical model, systematic computations are carried out to investigate the influence of longitudinal and lateral separations and advancing speeds on the hydrodynamic interaction between the LHD and SV. From the results, it is observed that the surge force, sway force, roll moment and yaw moment can vary significantly for different longitudinal separations. This is primarily due to the change of free surface wave patterns and velocity field around the two ships. When investigating the effect of lateral separation, LHD is found to be less affected by the interaction compared to SV. The sway force, roll moment and yaw moment have found to decrease with the increase of lateral separation.

The editors and the authors would like to apologize for any inconvenience caused.

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