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Combined Numerical and Experimental Simulations of Unsteady Ship Airwakes

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Highlights

- Ship airwake characteristics over the flight deck are characterized experimentally
- Computational airwake simulations are validated successfully for static frigates
- Airwake results are compared using various metrics including turbulence distributions
- Inclusion of masts plays secondary role when compared with choice of numerical scheme
- Oblique wind angles add challenges to both experimental and computational simulations

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