Sailing Efficiency and Course Keeping Ability of Wind Assisted Ships

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Propositions

accompanying the dissertation

Sailing Efficiency and Course Stability of Wind-Assisted Ships

by

Nico van der Kolk

1. Linear modeling is not sufficient to describe the hydrodynamics of wind-assisted ships. (this thesis)
2. Vessel sailing balance is a key design constraint for wind-assisted ships. (this thesis)
3. The bilge keel finds new purpose as an effective appendage for wind-assisted ships. (this thesis)
4. Characterizing vessel behavior using the terms in regression polynomials is problematic.
5. Widespread adoption of wind-assist is necessary to offset the CO_2 emissions associated with this research.
6. ”Men go in herds: but every woman counts.”
7. Slow is nature’s way.
8. A Muse is nothing to be trifled with.
9. System resilience must rival growth.
10. Market drivers are not adequate to promote the necessary technology transformation.

These propositions are regarded as opposable and defendable, and have been approved as such by the promotor prof. dr. R.H.M. Huijsmans.