

Title: Wind Feed Forward – Blowing Away the Myths

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Abstract

The paper examines the use and requirements for wind feedforward.

The aim of wind feedforward is to counteract the wind forces on the vessel before they affect the position. This is achieved by measuring the wind speed and direction and calculating estimated forces from a model of the vessel wind resistance.

The paper looks at a number of influences on the efficacy of wind feedforward, including accuracy and repeatability of wind sensors, accuracy of wind force models, the variability of the wind, both spatially and temporally, and the effect of nearby structures.

It is shown that some types of vessels and operations can gain great benefit from the inclusion of wind feedforward. However, there are certain situations in which wind feedforward has the potential to degrade DP performance. The paper attempts to summarize where, and under what circumstances, wind feedforward should be used, and also where it should not.

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