

# Assessment of Altimetry Satellite Data for Windwaves Model Verification

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## ABSTRACT

The study about wind and wave model verification is very rare. It is caused by the limitation of marine observation data. So that, satellite data is highly desirable not only for marine observation but also marine forecasting. Besides that, the existing study still uses qualitative method such as forecaster experience, accident report and Familiarization voyage experience. This study will utilize altimetry satellite data for verifying wind and wave forecasting model, in quantitatively. The used data consists of daily windwaves reanalysis output and merged altimetry satellite during year 2012. The parameter includes wind speed and significant wave height. The used method is statistical method such as Error, Bias and RMSE (Root Mean Square). The result will be used for improving quality of windwaves forecasting model.

Keywords: *Verification, Wave Forecasting, Altimetry Satellite*