Abstract Details

Corresponding Author : Prof. Jong-Jin Baik (jjbaik@snu.ac.kr)
Organization: Seoul National University

Category: Ocean and Atmospheres

Paper ID: 57-OOA-A1367

Title: Typhoon Intensity Prediction

Abstract:

A reliable prediction of typhoon track and intensity is prerequisite to quantitative precipitation forecasting associated with a typhoon. Typh track prediction has been gradually improved with an aid of numerica models, but there has been little improvement in typhoon intensity prediction. Here, we will discuss some difficulties in typhoon intensity prediction using a mesoscale model. Particularly, we will focus at whic stages typhoon intensity is much difficult to predict. Next, we will pre multiple linear regression model and a neural network model for pred typhoon intensity up to 72 hours and show their performance skills. T models include synoptic predictors as well as climatology and persiste predictors. Finally, we will present a minimal predictor model for pred typhoon intensity, which has only three predictors (intensity change d previous 12 hours, potential intensification, and vertical wind shear).

Presentation Mode:

Keywords: typhoon intensity prediction, mesoscale model, multiple linear regres model, neural network model

Status: Reviewed.

Co-Authors

No.	Title	First Name	Family Name	Organization
1	Mr.	Byoung-Joon	Kim	Seoul National University
2	Prof.	Jong-Jin	Baik	Seoul National University