



Abstract Details

[AOGS 1st Annual Meeting](#) > [Ocean and Atmospheres](#) > **Verification of Short-Range Weather Forecasts from Numerical Weather Prediction Models over Korea Peninsula** >

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Title: Verification of Short-Range Weather Forecasts from Numerical Weather Prediction Models over Korea Peninsula

Abstract: Gridded 48-h short-range weather forecasts from NWP models are verified over the Korea peninsula. All forecasts have been mapped to a 3° latitude-longitude grid respectively and have been verified against an hourly observations, mapped to the same grid. We perform Mesoscale model version 5 (MM5) simulations for 48 hours at an interval of 12 hours from June to September, 2003. We use GDAPS (Global Data Assimilation and Prediction System) of KMA (Korea Meteorological Administration) as the initial and boundary data. We verify weather forecasts results by meteorological and hydrological methods. We use a variety of statistical verification methods to verify the result by quantitative and qualitative methods. Statistics are presented of the bias score, probability of detection, and false alarm ratio, accuracy, critical success index (threat score) for a range of rainfall threshold values.

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