



## Abstract Details

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**Title:** Improvement on the Tropical Cyclone

**Abstract:** Since QuikSCAT is available in cloudy and rainy condition, its wind data are valuable in monitoring and real time forecasting the wind field, especially in sparse genesis regions of tropical cyclones. In order to understand and investigate the impact of QuikSCAT Wind Data, the Three-Dimensional Variational data assimilation (3D-VAR) of Scatterometric wind data have been employed for the tropical cyclone "Vongfong" in the year 2002. The result shows that the QuikSCAT data have positive impact on the analysis and forecasting. But the positive impact is slight. The present results suggest that how to assimilate QuikSCAT wind data effectively is important and will be a challenge to meteorologist.

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