



## **The effects of TC vortex initialization in regional typhoon prediction model**

Suhong Ma  
China (mash@cma.gov.cn)

The TC vortex initialization has been very important for TC track and intensity prediction of regional models which use the global model analysis as the initial condition. Is it still that important with the continuous improvements of global model and data assimilation.

The TC vortex initialization scheme in the regional typhoon model which uses NCEP-GFS analysis as the initial condition is retested in the paper. There are two parts of this scheme in order to have on TC vortex which is located in the analyzed position with the same analyzed intensity: vortex relocation and intensity correction. The results show that TC vortex initialization couldn't improve the TC track prediction skill but it is very important for the TC intensity prediction especially when TC in tropical storm stage.

More details will be presented in this presentation.