

P46 The impacts of numerical schemes on asymmetric vortex intensification

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The dynamics of vortex axisymmetrization from the perspective of thermal anomalies is investigated using two nonlinear numerical models. Attempts at reproducing the nonlinear modeling results of previous work (which used WRF, Nolan and Grasso 2003) revealed a discrepancy with the impacts of purely asymmetric forcing. Spectral momentum budgets and analysis reveals that differences in effective diffusion between the two models are likely the driving force behind these results. Implications of these results for the understanding of hurricanes will be discussed.