

PS.14 THE SENSITIVITY OF WRF SIMULATIONS OF HURRICANE IVAN TO CHOICE OF CUMULUS PARAMETERIZATION

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North Carolina State University

1. INTRODUCTION

As progressively smaller grid spacing is used in numerical modeling of mesoscale weather systems, explicit simulation of convection without parameterization has become more common. However, to our knowledge, the appropriateness of omitting the cumulus parameterization (CP) scheme at smaller grid spacing (4 km or less) has not been systematically determined in a tropical environment, particularly for tropical cyclones. The objective of this study is to observe the effects of explicitly resolving convection in a tropical cyclone, as opposed to using a convective parameterization. It is our hypothesis that explicit treatment of convection will provide a more realistic representation of the hurricane secondary circulation, eye and eyewall structure, and storm intensity.

2. BACKGROUND

The use of different convective parameterizations and of explicitly resolved convection significantly impacts the simulated track and intensity of tropical cyclones (e.g., Davis and Bosart 2002). Even the choice of CP used on coarser, outer grids affects the explicitly resolved convection on the finer-mesh grids for which they provide lateral boundary conditions. In their three-domain case study of summer convection in the southwestern U.S., Warner and Hsu (2000) concluded that mass field adjustments on the outer grids affect the timing and intensity of precipitation in the innermost finer grid, producing up to a factor of 3 difference in the 24-hour explicit precipitation totals. They proposed possible ways of mitigating this problem which included testing "the adequacy of marginal grid resolutions (3-5 km) for the explicit simulation of convection."

Weisman et al. (1997) simulated squall lines to test the sensitivity of horizontal grid resolution on explicit convection, using grid spacings between 1 and 12 km. This study concluded that 4 km grid spacing could reproduce essential features of the structure and evolution of the squall line seen in a 1 km run. Weisman et al. (1997, p. 546) speculate that this minimal resolution may be smaller in tropical environments in order to resolve the weaker vertical motions found in tropical cyclones relative to that found in intense midlatitude convective systems. Bryan et al. (2003) recommend grid spacings on the order of 100 m to be used as a benchmark in resolution sensitivity studies in order to better represent intracloud motions.

3. METHODS

The Weather Research and Forecasting (WRF) model (Version 2.0.3.1) is used for five different forecasts, all of which used the same physics and grid specifications, except for the CP scheme. In all of the simulations, a one-way nested grid of three domains is used, with 27, 9, and 3 km grid spacing on the outermost to innermost domains, respectively (Fig. 1).

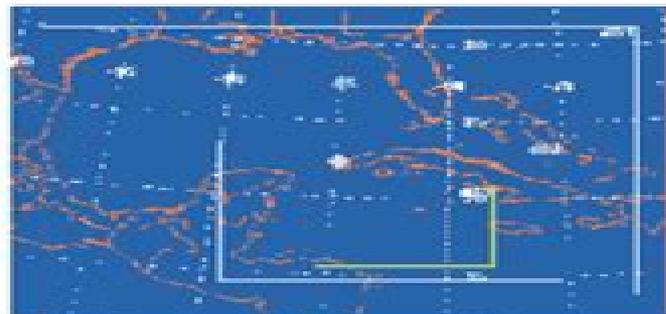


Fig. 1. Domain configuration used with grid spacing of 27, 9, and 3 km on domains 1, 2, and 3, respectively.

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Table of Contents Wrf Model Sensitivity To Choice Of Parameterization A

1. Understanding the eBook Wrf Model Sensitivity To Choice Of Parameterization A
 - The Rise of Digital Reading Wrf Model Sensitivity To Choice Of Parameterization A
 - Advantages of eBooks Over Traditional Books
2. Identifying Wrf Model Sensitivity To Choice Of Parameterization A
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wrf Model Sensitivity To Choice Of Parameterization A
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wrf Model Sensitivity To Choice Of Parameterization A
 - Personalized Recommendations
 - Wrf Model Sensitivity To Choice Of Parameterization A User Reviews and Ratings

- Wrf Model Sensitivity To Choice Of Parameterization A and Bestseller Lists
- 5. Accessing Wrf Model Sensitivity To Choice Of Parameterization A Free and Paid eBooks
 - Wrf Model Sensitivity To Choice Of Parameterization A Public Domain eBooks
 - Wrf Model Sensitivity To Choice Of Parameterization A eBook Subscription Services
 - Wrf Model Sensitivity To Choice Of Parameterization A Budget-Friendly Options
- 6. Navigating Wrf Model Sensitivity To Choice Of Parameterization A eBook Formats
 - ePub, PDF, MOBI, and More
 - Wrf Model Sensitivity To Choice Of Parameterization A Compatibility with Devices
 - Wrf Model Sensitivity To Choice Of Parameterization A Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wrf Model Sensitivity To Choice Of Parameterization A
 - Highlighting and Note-Taking Wrf Model Sensitivity To Choice Of Parameterization A
 - Interactive Elements Wrf Model Sensitivity To Choice Of Parameterization A
- 8. Staying Engaged with Wrf Model Sensitivity To Choice Of Parameterization A
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wrf Model Sensitivity To Choice Of Parameterization A
- 9. Balancing eBooks and Physical Books Wrf Model Sensitivity To Choice Of Parameterization A
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wrf Model Sensitivity To Choice Of Parameterization A
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wrf Model Sensitivity To Choice Of Parameterization A
 - Setting Reading Goals Wrf Model Sensitivity To Choice Of Parameterization A
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wrf Model Sensitivity To Choice Of Parameterization A
 - Fact-Checking eBook Content of Wrf Model Sensitivity To Choice Of Parameterization A
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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