

Marine Science The Dynamic Ocean Study Workbook

Scientific and Technical Aerospace Reports Mosaic Tropical Cyclone
Modeling and Prediction: Advances in Model Development and Its
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Proceedings, Oceans '83: Technical papers JGOFS Report U.S. Government Research & Development Reports *Xuejin Zhang Smithsonian Science Information Exchange National Research Council (U.S.). Ad Hoc Working Group on Antarctic Oceanography Smithsonian Institution. Board of Regents Smithsonian Institution Smithsonian Institution Natural Environment Research Council (Great Britain)*

tropical cyclones tcs can cause billions of dollars in property damage and up to thousands of life losses globally every year in order to mitigate these socioeconomic impacts scientists have strived in developing sophisticated numerical modeling systems to provide better tools for research and forecast communities especially in those coastal countries and regions that are impacted substantially by tcs in the past several decades recently several accelerated efforts were made by several research and operational centers after tremendous property and life losses by landfall tcs in the north atlantic the western north pacific and the north indian ocean basins the modeling systems in regional forecast centers are planning to upgrade to the next generation or make significant advances through those accelerations in this research topic the goal is to document the latest developments physics improvements data assimilation holistic forecast systems and their applications themes include the significant model new features high resolution physics for tc applications data assimilation methodology and observational data impacts forecast experiments model verification and validation studies on the role of physical processes associated with the boundary layer convection and microphysics radiation land surface processes air sea wave processes are encouraged the model evaluations including quantitative precipitation forecasts and tools and products for tc research and forecasts are welcome as well novel studies and latest model developments having a research to operation r2o transition possibility will be considered for publication the ultimate goal is to exchange research ideas advances and understanding across the global tc communities we welcome original research and review articles from development observational numerical modeling and forecasting perspectives on tcs articles can include but are not limited to the following topics model development tc vortex initialization algorithm high resolution physics for tc air sea wave interactions model tracking and intensity verification data assimilation methods observational data impacts model evaluation tools model evaluation comparison products for research and forecasts and novel studies based on new findings and methodology

report prepared to start a dialogue among ocean scientists on the steps that must be taken in order to advance significantly our understanding of the role that oceans play in climatic variation and to identify ocean research needed in the context of the developing national u s and international climate research plans

the primary focus of this research is to integrate dynamical processes of wave and turbulence in the upper ocean surface boundary layer sbl into a physics based computational capability for the time dependent radiative transfer rt in the ocean the combined capability we develop will provide direct forward predictions of the radiance distributions in the upper ocean we aim to use this capability for understanding the basic features and dependencies of oceanic radiance on the wave environment to provide guidance and cross calibration for field measurements and to validate and benchmark existing and new theories as an ultimate goal the proposed direct simulation also provides a framework in conjunction with sensed radiance data for the optimal reconstruction of salient features of the ocean surface and the above water scene

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