

Hua Chen

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Education

Ph.D., Atmospheric and Oceanic Science, University of Maryland, 2012

M.S., Meteorology, University of Maryland, 2005;

M.S., Oceanography, Xiamen University, 2002

B.S., Oceanography, Xiamen University, 1998

Work

09/2012-present: Cooperative Institute for Marine and Atmospheric Studies,
University of Miami, 4600 Rickenbacker Causeway, Key Biscayne, FL, 33149

Job Duties

As postdoc at Cooperative Institute for Marine and Atmospheric Studies, University of Miami, my job mainly includes analyzing data from both hurricane numerical forecast model and flight observation to advance the understanding of hurricane intensity change related scientific questions. I also conduct code development of Hurricane Research Weather Forecast Model and participate in the Hurricane Flight Field Program.

Peer-Reviewed Publications

- Chen, H.**, D.-L. Zhang, J. Carton, and R. Atlas, 2011: On the Rapid Intensification of Hurricane Wilma (2005). Part I: Model prediction and structural changes. *Weather and Forecasting*, 26, 885-901
- Kieu, C. Q., **H. Chen**, and D.-L. Zhang, 2011: An Examination of the pressure-wind relationship in intense tropical cyclones. *Weather and Forecasting*, 25, 895-907
- Zhang, D.-L. and **H. Chen**, 2012: Importance of the Upper-level Warm Core in the Rapid intensification of Tropical cyclone. *Geophysical Research Letters*, 39, L02806, doi: 10.1029/2011GL050578
- Chen, H.** and D.-L. Zhang, 2013: On the Rapid Intensification of Hurricane Wilma (2005). Part II: Convective bursts and the upper-level warm core. *Journal of the Atmospheric Sciences*, 70, 146-172
- Chen, H.**, and S. G. Gopalakrishnan, 2015: A study on the Asymmetric rapid intensification of hurricane earl (2010) Using the HWRF system. *J. Atmos. Sci.* 72, 531-550.
- Miller, W., **H. Chen** and D.-L. Zhang, 2015: On the Rapid Intensification of Hurricane Wilma (2005). Part III: Effects of Latent Heat of Fusion. *J. Atmos. Sci.* e-View