

James Michael Done

Personal Details

Name James Michael Done
Date of Birth 20th Dec 1977
Nationality British
Country of Residence United States of America
Current Affiliation Project Scientist II and Willis Research Fellow,
NCAR Earth System Laboratory
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Qualifications

PhD in Atmospheric Science, University of Reading, UK (2003).
1st class BSc Hons Meteorology, University of Reading, UK (1999).

Professional Affiliations

Member of the Royal Meteorological Society since 2002.
Member of the American Geophysical Union since 2008.

Awards

The Royal Meteorological Society Rupert Ford Award (2003).

Employment Summary

Oct 2011 – present	Project Scientist II and Willis Research Fellow, NCAR, US
Nov 2008 – Oct 2011	Project Scientist I and Willis Research Fellow, NCAR, US
Jul 2007 – Nov 2008	Post-doctoral scientist and Willis Research fellow, NCAR, US <ul style="list-style-type: none">• Running and analyzing real-time hurricane forecasts.• Analysis of tropical cyclone genesis environments.
Jul 2006 – Jul 2007	Career break to travel for one year.
Jan 2004 – Jul 2006	Post-doctoral researcher, NCAR, US <ul style="list-style-type: none">• Development of Regional Climate Modeling capability with the Weather Research and Forecasting (WRF) model.• Running and analyzing multi-year nested regional climate simulations over North America and for a tropical channel.
May 2003 – Aug 2003	Visiting Scientist, NCAR, US <ul style="list-style-type: none">• Collection of observational data and evaluation of model data during the Bow-Echo and Mesoscale Convective Vortex Experiment.
Dec 2002 – Apr 2003	Visiting Scientist, Met Office, UK <ul style="list-style-type: none">• Implementation and testing of new physics packages.

Current Committees and Research Leadership Activities

- Manager of the Regional Climate Research Section within the NCAR Earth System Laboratory. 2011 – present.
- NESL/MMM representative on the NCAR Early Career Scientist Association's steering committee. 2011 – present.
- Co-chair on a technical advisory committee for a Department of Energy-led consortium of offshore energy companies. 2012 – present.
- Willis Research Fellow. 2008 – present.
- Co-PI, Research Partnership to Secure Energy for America program to assess the effect of climate variability and change in Hurricane Activity in the North Atlantic. 2008 - present.
- Co-PI, Argonne Leadership Computing Challenge project to simulate regional climate at convection permitting resolution. 2011 – present.

Supervisory Responsibilities

- Hiring manager and supervisor of an Associate Scientist II and a Postgraduate Scientist. 2011 – present.
- Served on the hiring committee for a Project Scientist I. 2011.
- Supervised a Significant Opportunities in Atmospheric Research and Science student project. 2010, 2011 and 2012.

Education and Outreach

- Held a public lecture on hurricanes at NCAR's 50th Anniversary Open Day, 2010.
- Presented a seminar titled '*Weather and Climate Modeling: Industry Applications*' to the NCAR Journalism Fellowship, 2010
- Panelist for a dialogue on scientific and religious views of truth at the Boulder 7th Day Adventist Church, 2011.
- Provided scientific guidance for a Weather Channel production on the 2011 Hurricane season.

Publications

- Tilmes, S., A. Monaghan, and J. Done (2012), Addressing climate challenges in developing countries, *Eos Trans. AGU*, 93(14), 145, doi:10.1029/2012EO140008.
- Cavallo, S., Torn, R., Snyder, C., Davis, C., Wang, W., and Done, J., (2012) Evaluation of the Advanced Hurricane WRF data assimilation system for the 2009 Atlantic hurricane season. Submitted to *Mon. Wea. Rev.*
- Done, J.M., Holland, G.J., Bruyère, C.L., Leung, L.R., and Suzuki-Parker, A., 2012: Modeling high-impact weather and climate: Lessons from a tropical cyclone perspective. NCAR/TN-490+STR, 28pp. [Available online at <http://nldr.library.ucar.edu/repository/collections/TECH-NOTE-000-000-000-854>.]
- Done, J.M., Clark, P.A., Craig, G.C. and Gray, S.L. (2011) Case-to-case variability of predictability of deep convection in a mesoscale model. *Q.J. Roy. Met. Soc.* 138, 638-648
- Kumar, A. Done, J.M., Dudhia, J. and Niyogi, D. (2011) Simulations of Cyclone Sidr in the Bay of Bengal with a high-resolution model: Sensitivity to large-scale boundary forcing. *Meteorol. Atmos. Phys.*, DOI 10.1007/s00703-011-0161-9
- Davis, C., Wang, W., Cavallo, S., Done, J., Dudhia, J., Fredrick, S., Michalakes, J., Caldwell, G., Engel, T., and Torn, R., (2011) High-Resolution hurricane forecasts. *Comput. Sci. Eng.* 13, 22, DOI:10.1109/MCSE.2010.74

- Done, J., G.J. Holland, C. Bruyere and A. Suzuki-Parker, 2011: Effects of climate variability and change on Gulf of Mexico tropical cyclone activity. Proc. 2011 Offshore Technology Conference, 22190.
- Done, J.M, Holland, G.J. and Webster, P.J. (2011) The role of wave energy accumulation in tropical cyclone genesis over the tropical North Atlantic. *Clim. Dyn.*, 36,3, 753-767 DOI: 10.1007/s00382-010-0880-5
- Porter, K., Wein, A., Alpers, C., Baez, A., Barnard, P., Carter, J., Corsi, A., Costner, J., Cox, D., Das, T., Dettinger, M., Done, J., Eadie, C., Eymann, M., Ferris, J., Gunturi, P., Hughes, M., Jarrett, R., Johnson, L., Le-Griffin, H., Mitchell, D., Morman, S., Neiman, P., Olsen, A., Perry, S., Plumlee, G., Ralph, M., Reynolds, D., Rose, A., Schaefer, K., Serakos, J., Siembieda, W., Stock, J., Strong, D., Wing, I., Tang, A., Thomas, P., Topping, K., and Wills, C., 2010, Overview of the ARkStorm Scenario: U.S. Geological Survey Open File Report 2010-1312, 183 p.
- Holland, G.J., J. Done, C. Bruyere, C. Cooper and A. Suzuki, 2010: Model investigations of the effects of climate variability and change on future Gulf of Mexico tropical cyclone activity. Proc. 2010 Offshore Technology Conference, 20690.
- Done, J., Hu, A., Farmer, E.C., Yin, J., Bates, S., et al. 2009: The thermohaline circulation and tropical cyclones in past, present, and future climates. *Bull. Amer. Met. Soc.* 90,7, 1015-1017
- Done, J.M., Clark, P.A., Craig, G.C. and Gray, S.L. (2006) Mesoscale simulations of organized convection: Importance of convective equilibrium. *Q.J. Roy. Met. Soc.*, 132, 737-756.
- Done, J.M., Davis, C. and Weisman, M. (2004): The next generation of NWP: Explicit forecasts of convection using the Weather Research and Forecasting (WRF) model. *Atmos. Sci. Letters*, 5, 110-117 DOI: 10.1002/asl.72
- Done, J.M. and Clark, P.A. (2003) Evaluation of the Kain-Fritsch convection scheme in the Met Office mesoscale model. Met Office internal report.

References Available on request.