

publications

Regional Climate Section - Papers and Publications

Submitted

1. Hsu, H-M., J.J. Tribbia, M.W. Moncrieff, and **C.L. Bruyère**, 2013: Multiscale Spectral Structure of Maritime Continent Rainfall Simulated by a Nested Regional Climate Model and Observed by Satellites. *Climate Dynamics*, *Accepted*.
2. **Tye, M.R., G. J. Holland**, and **J.M. Done** 2014: Rethinking failure: Time for a synergistic approach. Submitted to *Proceedings of the Institution of Civil Engineers : Forensic Engineering*.
3. **Lazrus, H.** *Risk Perception and Climate Adaptation in Tuvalu: A Combined Cultural Theory and Traditional Knowledge Approach*. Submitted to *Human Organizations*.
4. McNeeley, S. and **H. Lazrus**. Reclaiming Culture and Nature for Climate Change Adaptation. Submitted to *Weather, Climate, and Society*.
5. **Morss, R. E.**, J. L. Demuth, A. Bostrom, J. K. Lazo, and **H. Lazrus**, 2013: Flash flood risks and warning decisions in Boulder, Colorado: A mental models study of forecasters, public officials, and media broadcasters. Submitted to *Risk Analysis*.
6. **PaiMazumder, D.**, and **J.M. Done**, 2014. Simulating Summer Extremes using Regional Climate Models. Submitted to *Climate Dynamics*.
7. **Towler E, PaiMazumder D, Holland G**, 2014: Improving future predictions of drought: A new hybrid statistical-dynamical downscaling technique, Submitted to *J Climate*.
8. **Tye M.R.**, 2014: Changes in extreme precipitation and the need for resilience. Submitted to *Proceedings of the Institution of Civil Engineers : Forensic Engineering*.

2015

1. **Galarneau, T. J., Jr.**, R. McTaggart-Cowan, L. F. Bosart, and C. A. Davis, 2015: Development of North Atlantic tropical disturbances near upper-level potential vorticity streamers. *Journal of the Atmospheric Sciences*, **72**, 572-597, doi:10.1175/JAS-D-14-0106.1.

2014

1. **Bruyère C.L., G.J. Holland**, 2014: Exploring Genesis Potential Indices. Paper OTC 25312-MS.
2. Caron, L.P., M. Boudreault, and **C.L. Bruyère**, 2014: Large-scale control of Atlantic tropical cyclone activity as a function of the Atlantic Multi-decadal Oscillation phase. *Climate Dynamics*. 10.1007/s00382-014-2186-5
3. Czajkowski, J. and **J.M. Done**, 2014: As the Wind Blows? Developing a Deeper Understanding of Hurricane Damages from a Case Study Analysis. *Weather Climate and Society*, 6, 2, pp 202-217, doi: 10.1175/WCAS-D-13-00024.1
4. **Done J.M., C.L. Bruyère, M. Ge**, and **G.J. Holland**, 2014: Future Changes in Gulf of Mexico Hurricane Wave Climatology. Paper OTC 25302-MS.
5. **Done, J.M., Bruyère, C.L., Jaye A. and M. Ge** 2014: Internal Variability of North Atlantic Tropical Cyclones. *JGR-Atmospheres*. 10.1002/2014JD021542
6. **Holland G.J.**, and **C.L. Bruyère**, 2014: Recent intense hurricane response to global climate change, *Climate Dynamics*, 10.1007/s00382-013-1713-0.
7. **Holland, G.J., J.M. Done**, and **C.L. Bruyère**, 2014: Assessing Uncertainty and Predictability of Regional Climate, with a Focus on Hurricanes. Paper OTC 25355-MS.
8. Pfister, G.G., S. Walters, J.-F. Lamarque, J. fast, M.C. Barth, J. Wong, **J. M. Done**, **G. Holland**, and **C.L. Bruyère**, 2014: Prediction of Future Summertime Ozone over the U.S., *JGR-Atmospheres*. 10.1002/2013JD020932
9. Powers, J.G., **C.L. Bruyère, J.M. Done**, J. Dudhia, T.J. Galarneau, Jr., M.J. Kavulich, Jr., S.E. Peckham, and W. Wang, 2014: The Weather Research and Forecasting Model and Its Applications. Meteor. Technology Int'l., April 2014, 30-33.
10. Raktham, C., **C.L. Bruyère**, J. Kreasuwun, **J.M. Done**, C. Thongbai, and W. Promnopas, 2014: Regional Climate Simulation Sensitivities over Southeast Asia. *Climate Dynamics*. 10.1007/s00382-014-2156-y
11. **Tye M.R.**, D.B. Stephenson, **G.J. Holland**, R.W. Katz, 2014: A Weibull approach for recalibrating climate model projections of tropical cyclone wind-speed distributions. *Journal of Climate*. 10.1175/JCLI-D-14-00121.1

2013

1. **Bruyère C.L., J.M. Done, G.J. Holland**, and **S. Fredrick**, 2013: Bias Corrections of Global Models for Regional Climate Simulations of High-Impact Weather, *Climate Dynamics*, DOI : 10.1007/s00382-013-2011-6
2. Burton, A., Glenis, V., **Jones, M.R.**, Kilsby, C.G., 2013, "Models of daily rainfall cross-correlation for the United Kingdom". *Environmental Modelling and Software*
3. Cavallo, S.M., R.D. Torn, C.M. Snyder, C.A. Davis, W. Wang, and **J.M. Done**, 2013: Evaluation of the Advanced Hurricane WRF Data Assimilation System for the 2009 Atlantic hurricane season. *Monthly Weather Review*, 141, 523-541, DOI: 10.1175/MWR-D-12-00139.1
4. Demuth, J.L., **R.E. Morss**, J.K. Lazo, and D.C. Hilderbrand, 2013: Improving effectiveness of weather risk communication on the NWS point-and-click web page. *Weather and Forecasting*, 28, 711-726, DOI: 10.1175/WAF-D-12-00118.1.
5. **Done J.M., G.J. Holland, C.L. Bruyère**, L.R. Leung, and **A. Suzuki-Parker**, 2013: Modeling High-Impact Weather and Climate: Lessons from a Tropical Cyclone Perspective, *Climatic Change*. DOI: 10.1007/s10584-013-0954-6
6. **Galarneau, T. J., Jr.**, and C. A. Davis, 2013: Diagnosing forecast errors in tropical cyclone motion. *Mon. Wea. Rev.*, **141**, 405-430.
7. **Galarneau, T. J., Jr.**, C. A. Davis, and M. A. Shapiro, 2013: Intensification of Hurricane Sandy (2012) through extratropical warm core seclusion. *Mon. Wea. Rev.*, **141**, 4296-4321.
8. Hamill, T. M., G. T. Bates, J. S. Whitaker, D. R. Murray, M. Fiorino, **T. J. Galarneau, Jr.**, Y. Zhu, and W. Lapenta, 2013: NOAA's second-generation global medium range ensemble reforecast data set. *Bull. Amer. Meteor. Soc.*, **94**, 1553-1565.
9. Johnsen, P., M. Straka, M. Shapiro, A. Norton, and **T. Galarneau**, 2013: Petascale WRF simulation of Hurricane Sandy - Deployment of NCSA's Cray XE6 Blue Waters. Proceedings of SC13, *The International Conference for High Performance Computing, Networking, Storage, and Analysis*, Denver, CO, Association for Computing Machinery, **63**, doi:10.1145/2503210.2503231.
10. **Jones, M.R.**, Blenkinsop, S., Fowler, H.J., Kilsby, C.G., 2013. Objective classification of extreme rainfall regions for the UK and updated estimates of trends in regional extreme rainfall. *International Journal of Climatology* DOI: 10.1002/joc.3720

11. Jones, M.R., G. J. Holland and J.M. Done 2013: Integrating Science and Engineering to Reduce Vulnerability to Climate Extremes *Eos Trans. AGU* 94(49) doi: 10.1002/2013EO490006
12. Julie K.M., C. Shearer, R. Bronen, K. Peterson and H. Lazrus. 2013. The Impact of Climate Change on Tribal Communities in the US: Displacement, Relocation, and Human Rights. *Climatic Change*. Published online: 09 April 2013.
13. McTaggart-Cowan, R., T.J. Galarneau, Jr., L.F. Bosart, R.W. Moore, and O. Martius, 2013: A global climatology of baroclinically influenced tropical cyclogenesis. *Mon. Wea. Rev.*, **141**, 1963-1989.
14. Metz, N.D., H.M. Archambault, A.F. Srock, T.J. Galarneau, Jr., and L.F. Bosart, 2013: A comparison of South American and African preferential pathways for extreme cold events. *Mon. Wea. Rev.*, **141**, 2066-2086.
15. PaiMazumder, D., and J. Done, 2013: Uncertainties to long-term droughts characteristics over Canadian Prairies as simulated by the Canadian RCM. *Climate Research*, DOI: 10.3354/cr01196.
16. PaiMazumder, D., L. Sushama, R. Laprise, N. Khaliq, D. Sauchyn, 2013: Canadian RCM projected changes to short- and long-term drought characteristics over the Canadian Prairies. *International Journal of Climatology*, 33 (6), 1409-1423.
17. Peachey, J.A., D.M. Schultz, R. Morss, P.J. Roebber, and R. Wood, 2013: How forecasts expressing uncertainty are perceived by UK students. *Weather*, **68**, 176-181.
18. Photiadou, C., Jones, M.R., Keelings D.J., Dewes, C.F., 2013: Investigating Drivers of European Hot Spells Using Extreme Value Analysis. *Climatic Research*. DOI: 10.3354/cr01191
19. Prein, Andreas F., Gregory J. Holland, Roy M. Rasmussen, James Done, Kyoko Ikeda, Martyn P. Clark, Changhai H. Liu, 2013: Importance of Regional Climate Model Grid Spacing for the Simulation of Heavy Precipitation in the Colorado Headwaters. *J. Climate*, **26**, 4848-4857. doi: <http://dx.doi.org/10.1175/JCLI-D-12-00727.1>
20. Stratford, E. C. Farbotko, and H. Lazrus. 2013. Tuvalu, Sovereignty and Climate Change: Considering Fenua, the Archipelago and Emigration. *Island Studies Journal*. 8(1).
21. Towler E, Roberts M, Rajagopalan B, Sojda R., 2013: Incorporating probabilistic seasonal climate forecasts into river management using a risk-based framework, *Water Resour Res.* 49: 4997-5008, doi:10.1002/wrcr.20378.
22. Towler E, Rajagopalan B, Yates D, Rodriguez A, Summers R.S., 2013: An Integrated Approach to Simulate Stream Water Quality for Municipal Supply Under Changing Climate, *J. Environ. Eng.*, 139(12): 1432-1440, doi: 10.1061/(ASCE)EE.1943-7870.0000766.
23. Wilhelmi, O., and R.E. Morss, 2013: Integrated analysis of societal vulnerability in an extreme precipitation event: A Fort Collins case study. *Environmental Science & Policy*, 26, 49-62, DOI:10.1016/j.envsci.2012.07.005.

2012

1. Bosart, L., J.M. Cordeira, T.J. Galarneau, Jr., B.J. Moore, and H.M. Archambault, 2012: An analysis of multiple predecessor rain events ahead of tropical cyclones Ike and Lowell: 10-15 September 2008. *Mon. Wea. Rev.*, **140**, 1081-1107.
2. Bruyère, C.L., G. Holland, and E.L. Towler, 2012: Investigating the use of a Genesis potential index for tropical cyclones in the North Atlantic Basin. *Journal of Climate*, 25, 8611-8626, DOI:10.1175/JCLI-D-11-00619.1.
3. Demuth, J., J.K. Lazo, and R.E. Morss, 2012: Assessing and improving the NWS point-and-click webpage forecast information. NCAR Technical Note NCAR/TN-493+STR.
4. Demuth, J., R.E. Morss, B.H. Morrow, and J.K. Lazo, 2012: Creation and communication of hurricane risk information. *Bulletin of the American Meteorological Society*, 93, 1133-1145, DOI:10.1175/BAMS-D-11-00150.1.
5. Done, J.M., G.J. Holland, C.L. Bruyère, L.R. Leung, and A. Suzuki-Parker, 2012: Modeling high-impact weather and climate: Lessons from a tropical cyclone perspective. NCAR Technical Note NCAR/TN-490+STR, DOI: 10.5065/D61834FM.
6. Evans, C., H. Archambault, J. Cordeira, C. Fritz, T. Galarneau, S. Gjorgjievska, K. Griffin, A. Johnson, W. Komaromi, S. Monette, P. Muradyan, B. Murphy, M. Riemer, J. Sears, D. Stern, B. Tang, and S. Thompson, 2012: The pre-depression Investigation of cloud-systems in the tropics field campaign: Perspectives of early career scientists. *Bull. Amer. Meteor. Soc.*, **93**, 173-187.
7. Farbotko, C., and H. Lazrus, 2012: The first climate refugees? Contesting global narratives of climate change in Tuvalu. *Global Environmental Change: Human and Policy Dimensions*, 22, 382-390, DOI: 10.1016/j.gloenvcha.2011.11.014.
8. Galarneau, T. J., Jr., T.M. Hamill, R.M. Dole, and J. Perlwitz, 2012: A multiscale analysis of the extreme weather events over western Russia and northern Pakistan during July 2010. *Mon. Wea. Rev.*, **140**, 1639-1664,
9. Heinselman, P.L., D.S. LaDue, H. Lazrus. 2012. Exploring Impacts of Rapid-scan Radar Data on NWS Warning Decisions. *Weather and Forecasting*. 27(4):1031-1044.
10. Jones, M., Fowler, H.J., Kilsby, C.G., Blenkinsop, S., 2012: An assessment of changes in seasonal and annual maxima in the UK between 1961-2009. *International Journal of Climatology*. DOI: 10.1002/joc.3503
11. Lazrus, H. 2012: Sea Change: Climate Change and Island Communities. *Annual Review of Anthropology*. 41:285-301.
12. Lazrus, H., 2012: Book review of "Climate change and small island states: Power, knowledge and the South Pacific" by Jon Barnett and John Campbell. *Pacific Affairs*, 85.
13. Lazrus, H., B.H. Morrow, R.E. Morss, and J.K. Lazo, 2012: Vulnerability beyond stereotypes: Context and agency in hurricane risk communication. *Weather, Climate, and Society*, 4, 103-109, DOI: 10.1175/WCAS-D-12-00015.1.
14. McNeeley, S., S.A. Tessendorf, H. Lazrus, T. Heikkilä, I.M. Ferguson, J.S. Arrigo, S.Z. Attari, C.M. Cianfrani, L. Dilling, J.J. Gurdak, S.K. Kampf, D. Kauneckis, C.J. Kirchhoff, J. Lee, B.R. Lintner, K. Mahoney, S. Opitz-Stapleton, P. Ray, A.B. South, A.P. Stubblefield, and J. Brugger, 2012: Catalyzing frontiers in water-climate-society research: A view from early career scientists and junior faculty. *Bulletin of the American Meteorological Society*, 93, 8 pp, DOI: 10.1175/BAMS-D-11-00221.1.
15. PaiMazumder, D., D. Henderson, and N. Mölders, 2012: Evaluation of WRF-forecasts over Siberia: Air mass formation, clouds and precipitation. *The Open Atmospheric Science Journal*, 6, 93-110, DOI: 1874-2823/12 2012 Bentham Open.
16. Schumacher, R.S., and T. J. Galarneau, Jr., 2012: Moisture transport into midlatitudes ahead of recurving tropical cyclones and its relevance in two predecessor rain events. *Mon. Wea. Rev.*, **140**, 1810-1827.
17. Stewart, A.E., J.K. Lazo, R.E. Morss, and J.L. Demuth, 2012: The relationship of weather salience with the perceptions and uses of weather information in a nationwide sample of the United States. *Weather, Climate, and Society*, 4, 172-189, DOI: 10.1175/WCAS-D-11-00033.1.
18. Suzuki-Parker, A., 2012: An assessment of uncertainties and limitations in simulating tropical cyclones. Springer Thesis. XIII, 78 pp.
19. Tilmes, S., A.J. Monaghan, and J.M. Done, 2012: Addressing climate challenges in developing countries. *EOS, Transactions, American Geophysical Union*, 93, 145, DOI:10.1029/2012EO140008.
20. Towler E., V. Saab, R. Sojda, K. Dickinson, C.L. Bruyère, and K. Newlon, 2012: A risk-based approach to evaluating wildlife demographics for adaptation: A case study of the Lewis's Woodpecker, *Environmental Management*, 50(6): 1152-1163, doi:10.1007/s00267-012-9953-z.

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1. Demuth, J.L., J.K. Lazo, R.E. Morss, 2011: Exploring Variations in People's Sources, Uses, and Perceptions of Weather Forecasts. *Wea. Climate Soc.*, 3, 177-192. doi:<http://dx.doi.org/10.1175/2011WCAS1061.1>
2. Done, J.M., Clark, P.A., Craix, 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

3. **Done, J.M., G.J. Holland,** and P. Webster, 2011: The role of wave energy accumulation in tropical cyclogenesis over the tropical North Atlantic, *Clim. Dyn.*, **36**, 753-767.
4. **Done, J., G.J., Holland, C.L. Bruyère,** and **A. Suzuki-Parker,** 2011: Effects of Climate Variability and Change on Gulf of Mexico Tropical Cyclone Activity. Paper OTC 22190
5. Evans, C., R.S. Schumacher, and **T.J. Galarneau, Jr.,** 2011: Sensitivity in the overland reintensification of tropical cyclone Erin (2007) to near-surface soil moisture characteristics. *Mon. Wea. Rev.*, **139**, 3848-3870.
6. Kumar, A., **J. Done,** and J. Dudhia, 2011: Simulations of Cyclone Sidr in the Bay of Bengal with a high-resolution model: Sensitivity to large-scale boundary forcing. *Meteorology and Atmospheric Physics*, **114**, 123-137, DOI: [10.1007/s00703-011-0161-9](https://doi.org/10.1007/s00703-011-0161-9).
7. **Lazrus, H.** 2011. Climate Change, Water, and Development in Daily Life in Tuvalu. Barbara Rose Johnston (ed.) *Water, Cultural Diversity, and Global Environmental Change*. New York: Springer.
8. **Morss, R.E.,** O. Wilhelmi, G.A. Meehl, and L. Dilling, 2011: Improving societal outcomes of extreme weather in a changing climate: An integrated perspective. *Annual Review of Environment and Resources*, **36**, 1-25, DOI: [10.1146/annurev-environ-060809-100145](https://doi.org/10.1146/annurev-environ-060809-100145).
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11. **Towler, E.L.,** B. Raucher, B. Rajagopalan, A. Rodriguez, D. Yates, and R.S. Summers, 2011: Incorporating climate uncertainty in a cost assessment for new municipal source water. *Journal of Water Resources Planning and Management*, **138**, 396-402, DOI: [10.1061/\(ASCE\)WR.1943-5452.0000150](https://doi.org/10.1061/(ASCE)WR.1943-5452.0000150).

2010

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4. Davis, C.A., W. Wang, S. Cavallo, **J.M. Done,** J. Dudhia, **S.M. Fredrick,** J. Michalakes, G.A. Caldwell, T.M. Engel, and R. Torn, 2010: High-resolution hurricane forecasts. *Computing in Science & Engineering*, **13**, 22-30, DOI: [10.1109/MCSE.2010.74](https://doi.org/10.1109/MCSE.2010.74).
5. **Galarneau, T. J., Jr.,** L. F. Bosart, and R. S. Schumacher, 2010: Predecessor rain events ahead of tropical cyclones. *Mon. Wea. Rev.*, **138**, 3272-3297.
6. **Holland, G.J., J.M. Done, C.L. Bruyère,** C. Cooper and **A. Suzuki,** 2010: Model Investigations of the Effects of Climate Variability and Change on Future Gulf of Mexico Tropical Cyclone Activity. Paper OTC 20690.
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2009

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