

RACHEL E. RILEY

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Oklahoma Climatological Survey, University of Oklahoma
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(A) PROFESSIONAL PREPARATION

Iowa State University, Ames, IA Meteorology B.S. 2008
University of Oklahoma, Norman, OK Interdisc. Studies (Comm/Meteor) M.S. 2010
Thesis Title: *The Diffusion of New Media and Radar Technology and the Role of Broadcasters' Prior Experience and Public Perceptions in Television Severe Weather Coverage*

(B) APPOINTMENTS

2012-Present *Associate Program Manager*, Southern Climate Impacts Planning Program, University of Oklahoma, Norman, OK
2010-2012 *Research Associate*, Southern Climate Impacts Planning Program, University of Oklahoma, Norman, OK

(C) PRODUCTS

Research interests include: hazard planning and preparedness; effective communication of climate science information; use of climate information in decision-making; climate change adaptation; social and behavioral influences on weather-driven decisions

Refereed Publications:

Hoekstra, S., K. Klockow, **R. Riley**, J. Brotzge, H. Brooks, and S. Erickson, 2011: A preliminary look at the social perspective of warn-on-forecast: Preferred tornado warning lead time and the general public's perceptions of weather risks, *Weather, Climate, and Society*, **3(2)**, 128-140.
Liu, L., Y. Hong, C. Bednarczyk, B. Yong, M. Shafer, **R. Riley** and J. Hocker, 2012: Hydro-climatological drought analyses and projections using meteorological and hydrological drought indices: A case study in the Blue River Basin, Oklahoma. *Water Resources Management*, **26(10)**, 2761-2779.

Reports and Conference Proceedings:

Lunday, C. E., and **R. E. Riley**, 2013: *Winter storm management preferences in Oklahoma: A pilot study*, Eighth Symposium on Policy and Socio-Economic Research, 93rd Annual American Meteorological Society Meeting, Austin, TX, 6.8
McPherson, R.A., M.A. Shafer, J.E. Hocker and **R.E. Butterworth**, 2011: *Climate adaptation planning to aid state, municipal, tribal, and federal governmental decision makers in Oklahoma*. Sixth Symposium on Policy and Socio-Economic Research, American Meteorological Society, Seattle, WA.
Riley, R., 2012: *Workshop on communicating seasonal climate information: summary report*. Norman, OK: Southern Climate Impacts Planning Program, 47 pp. [Available online at http://www.southernclimate.org/publications/SeasonalClimate_SummaryReport.pdf]
Riley, R. E., and K. L. Nemunaitis-Monroe, 2012: *Using semi-structured interviews to assess the climate-related needs of Oklahoma decision-makers*, Seventh Symposium on Policy and

Socio-Economic Research, 92nd Annual American Meteorological Society Meeting, New Orleans, LA, 8B.2

Riley, R. E., and R. Edwards, G. P. Shelton, J. S. Grascchel, and J. Johnson, 2013: *Surveying flood information users: An academic-federal partnership*, Eighth Symposium on Policy and Socio-Economic Research, 93rd Annual American Meteorological Society Meeting, Austin, TX, J2.3

Riley, R., P. Blanchard, R. Peppler, D. Wildcat, B. Bennett, 2012: Oklahoma Inter-Tribal Meeting on Climate Variability and Change: Meeting Summary Report. Southern Climate Impacts Planning Program, 22 pp. [Available online at http://www.southernclimate.org/publications/Oklahoma_Intertribal_Climate_Change_Meeting.pdf]

Riley, R., K. Monroe, J. Hocker, M. Boone, and M. Shafer, 2012: An Assessment of the Climate-Related Needs of Oklahoma Decision Makers. Southern Climate Impacts Planning Program, 47 pp. [Available online at http://www.southernclimate.org/publications/OK_Climate_Needs_Assessment_Report_Final.pdf]

Riley, R. E., H. F. Needham, L. M. Carter, and C. E. Lunday, 2012: *Communicating with climate change visuals: Two exploratory exercises*, Seventh Symposium on Policy and Socio-Economic Research, 92nd Annual American Meteorological Society Meeting, New Orleans, LA, 1.5

Riley, R. E., K. L. Nemunaitis-Monroe, and J. E. Hocker, 2011: *An assessment of the climate-related needs of stakeholders in Oklahoma*, Practical Solutions for a Warming World: AMS Conference on Climate Adaptation, Asheville, NC

Shafer, M. and **R. Riley**, 2012: Managing Drought in the Southern Plains: A Summary of Survey Responses to the Webinar Series. Southern Climate Impacts Planning Program, 10 pp. [Available online at http://www.southernclimate.org/publications/Webinar_Survey_Summary.pdf].

(D) SYNERGISTIC ACTIVITIES

- Co-Chair, American Meteorological Society (AMS) Conference on Weather Warnings and Communication (2011); Session Co-Chair, AMS Symposium on Policy and Socio-Economic Research (2013)
- Judge, Student Presentations at AMS Symposium on Policy and Socio-Economic Research (2013)

(E) COLLABORATORS

(i) Collaborators and co-editors

B. Bennett (Kiksapa Consulting); P. Blanchard (U of Oklahoma); M. Boone (U of Oklahoma); H. Brooks (National Severe Storms Laboratory); J. Brotzge (U of Oklahoma); D. Brown (NOAA); L. Carter (Louisiana State U); R. Edwards (Louisiana State U); K. Galluppi (Arizona State U); S. Hoekstra (East Carolina U); J. Hocker (U of Oklahoma); Y. Hong (U of Oklahoma); B. Keim (Louisiana State U); K. Klockow (U of Oklahoma); A. Krautmann (U of Oklahoma); L. Liu (U of Maryland); J. Losego (NC State U); C. McNutt (NIDIS); R. McPherson (U of Oklahoma); K. Monroe (U of Oklahoma); B. Montz (East Carolina U); H. Needham (Louisiana State U); A. Petersen (Adaptation International); D. Sathiaraj (Louisiana State U); M. Shafer (U of Oklahoma); L. Smith (U of Oklahoma); A. Taylor (Chickasaw Nation); D. Wildcat (Haskell U)

(ii) Graduate advisors and postdoctoral sponsors

E. Gruntfest (NSF); K. Kloesel (U of Oklahoma); H. Dan O’Hair (U of Kentucky); S. Veil (U of Kentucky)