

Benjamin L. Preston

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Education and Training

2000 Georgia Institute of Technology, Environmental Biology, PhD
1996 College of William and Mary, Biology, B.S.

Research and Professional Experience

2012-Present Joint Faculty Associate Professor, Department of Civil and Environmental Engineering, University of Tennessee – Knoxville.
2011-Present Deputy Director, Climate Change Science Institute, Oak Ridge National Laboratory, Oak Ridge, TN, USA.
2010-Present Senior Research Professional, Division of Environmental Sciences, Oak Ridge National Laboratory, Oak Ridge, TN, USA.
2005-2010 Research Scientist, Division of Marine and Atmospheric Research, Commonwealth Scientific and Industrial Research Organisation, Aspendale, Victoria, Australia
2008 Visiting Fellow, Tyndall Centre for Climate Change Research, University of East Anglia, Norwich, UK.
2003 Adjunct Assistant Professor, Math, Science and Engineering Division, Northern Virginia Community College Annandale, Virginia, USA
2001-2005 Senior Research Fellow, Pew Center on Global Climate Change, Arlington, Virginia, USA.
2000-2001 Carolina, Postdoctoral Fellow, Carolina Environmental Program, University of North Carolina, Chapel Hill, North Carolina, USA.

Publications

Journal Articles (2005-Present)

- 1) Yuen, E.J., Stone-Jovicich, S., **Preston**, B.L. (2012). Social learning and adaptation to climate change: An exploration of learning catalysed by vulnerability assessments. *Mitigation and Adaptation Strategies for Global Change*, DOI: 10.1007/s11027-012-9376-4. [[View](#)]
- 2) Measham, T.G., **Preston**, B.L., Smith T.F., Brook C., Gorddard, R., Withycombe, G., Morrison, C. (2011) Adapting to climate change through local municipal planning: barriers and challenges. *Mitigation and Adaptation Strategies for Global Change*, DOI: 10.1007/s11027-011-9301-2. [[View](#)]
- 3) **Preston**, B.L., Yuen, E.J., Westaway, R.M. (2011). Putting vulnerability to climate change on the map: A critical look at approaches, benefits, and risks. *Sustainability Science*, DOI: 10.1007/s11625-011-0129-1. [[View](#)]
- 4) **Preston**, B.L., Westaway, R.M., Yuen, E.J. (2011) Climate adaptation planning in practice: an evaluation of adaptation plans from three developed nations. *Mitigation and Adaptation Strategies for Global Change* 16(4):407–438. [[View](#)]
- 5) Jones, R.N. and **Preston**, B.L. (2011) Adaptation and risk management. *WIREs Climate Change*, DOI: 10.1002/wcc.97. [[View](#)]
- 6) Smith, T.F., Lynam, T., **Preston**, B.L., Matthews, J., Carter, R.W., Thomsen, D.C., Carter, J., Neller, A., Simpson, R., Waterman, P., Bussey, M., and Keys, N. (2010). Toward enhancing adaptive capacity for climate change response in Southeast Queensland. *The Australasian Journal of Disaster and Trauma Studies*, vol 2010-11. [[View](#)]

- 7) Preston, B.L., Brooke, C., Smith, T., Measham, T., Gorddard, R. (2009). Igniting change in local government: lessons learned from a bushfire vulnerability assessment. *Mitigation and Adaptation Strategies for Global Change*, 14(3):281-283. [[View](#)]
- 8) Sheehan, P., Jones, R., Jolley, A., Preston, B.L., Clark, M., Durack, P.J., Islam, S., Sun, F., and Whetton, P. (2008). Climate change and the global knowledge economy: an immediate challenge. *Global Environmental Change*, 18:380-396. [[View](#)]
- 9) Preston, B.L. and Jones, R.N. (2008). Screening climatic and non-climatic risks to Australian catchments. *Geographical Research*, 46(3):258-274. [[View](#)]
- 10) Preston, B.L. and Jones, R.N. (2008). A national assessment of the sensitivity of Australian runoff to climate change. *Atmospheric Science Letters*, DOI: 10.1002/asl.188. [[View](#)]
- 11) Preston, B.L. and Jones, R.N. (2008). Evaluating sources of uncertainty in Australian runoff projections. *Advances in Water Resources* 31(5), 758-775. [[View](#)]
- 12) Smith, T.F., Brooke, C., Preston, B. Gorddard, R., Abbs, D., McInnes, K., Withycombe, G., and Morrison, C. (2007). Managing for climate variability in the Sydney region. *Journal of Coastal Research*, SI 50 (Proceedings of the 9th International Coastal Symposium, Gold Coast, Australia), 109-113. [[View](#)]
- 13) Preston, B. L. (2006). Risk-based reanalysis of the effects of climate change on U.S. cold-water habitat. *Climatic Change* 76 (1-2): 91-119. [[View](#)]

Book Chapters (2005-Present)

- 1) Measham, T.G. and Preston, B.L. (2012) Vulnerability analysis, risk and deliberation: the Sydney Climate Change Adaptation Initiative. In Locki, S. and Measham R.G. (eds.) *Risk and Social Theory in Environmental Management*, CSIRO Publishing, Collingwood, pp. 147-157.
- 2) Preston, B.L. and Kay, R.C (2010). Managing climate risk in human settlements. In *Greenhouse 2009*, Springer and CSIRO Publishing, Melbourne, pp. 185-196. [[View](#)]
- 3) Preston, B.L. and Westaway, R.M. (2010). A critical look at the state of adaptation planning. In *Greenhouse 2009*, Springer and CSIRO Publishing, Melbourne, pp. 205-219. [[View](#)]
- 4) Hennessy, K.J., Whetton, P.H., and Preston, B.L. (2010). Climate projections. In *Adapting Agriculture to Climate Change: Preparing Australian Agriculture, Forestry and Fisheries for the Future*, C. Stokes and M. Howden (eds). CSIRO Publishing, Melbourne, pp. 13-20.
- 5) Preston, B.L. (2009). Equitable climate policy in a dangerous world. In *Social Justice and Climate Change*, J. Moss (ed). Melbourne University Press, Melbourne, pp. 224-245. [[View](#)]
- 6) Smith, T.F., Brooke, C., Preston, B. Gorddard, R., Abbs, D. McInnes, K., Withycombe, G., and Morrison, C. (2009). Managing coastal vulnerability: new solutions for local government. In *Integrated Coastal Zone Management*, E. Dahl, E. Moksness, and J Støttrup (eds.), Wiley-Blackwell Publishing, Oxford, pp. 331-340.

Technical Reports (2005-Present)

- 1) Preston, B.L., and Stafford-Smith, M. (2009). *Framing Vulnerability and Adaptive Capacity Assessment*. CSIRO Climate Adaptation Flagship Working Paper, CSIRO, Aspendale and Canberra. [[View](#)]
- 2) Smith, T.F., Brooke, C., Measham, T.G., Preston, B., Gorddard, R., Withycombe, G., Beveridge, B. and Morrison, C. (2009). *Case Studies of Adaptive Capacity*. Prepared for the Sydney Coastal Councils Group by the University of the Sunshine Coast and the CSIRO Climate Adaptation Flagship, Sippy Downs and Canberra. [[View](#)]
- 3) Kinrade, P., Justus, M., Grey, S., Preston, B.L., Benedyka, S., and Skinner, J. (2008). *Impacts of Climate Change on Settlements in the Western Port Region. Climate Change Risks and Adaptation*. Prepared for the Western Port Greenhouse Alliance by Marsden Jacob Associates, Broadleaf Capital International, and the CSIRO Climate Adaptation Flagship, Melbourne. [[View](#)]
- 4) Kinrade, P., Preston, B.L., Macadam, I., Fisher, T., Whiteoak, K., Wiedemann, N., and Mirams, s. (2008). *Impacts of Climate Change on Settlements in the Western Port Region. People, Property and Places*.

Prepared for the Western Port Greenhouse Alliance by Marsden Jacob Associates and the CSIRO Climate Adaptation Flagship, Melbourne. [\[View\]](#)

- 5) Smith, T.F., Preston, B., Gorrdard, R., Brooke, C., Measham, T.G., Withycombe, G., Beveridge, B. and Morrison, C. (2008). *Regional Workshops Synthesis Report: Sydney Coastal Councils' Vulnerability to Climate Change*. Prepared for the Sydney Coastal Councils Group by the University of the Sunshine Coast and the CSIRO Climate Adaptation Flagship, Sippy Downs and Canberra. [\[View\]](#)
- 6) Preston, B.L., Smith, T., Brooke, C., Gorrdard, R., Measham, T., Withycombe, G., McInnes, K., Abbs, D., Beveridge, B., and Morrison, C. (2008). *Mapping Climate Change Vulnerability in the Sydney Coastal Councils Group*. Prepared for the Sydney Coastal Councils Group by the CSIRO Climate Adaptation Flagship, Canberra. [\[View\]](#)
- 7) Preston, B.L., Jones, R.N., and Hennessy, K. (2007). Application of climate projections in impact and risk assessments. In *Climate Change in Australia – Technical Report 2007*. CSIRO and the Bureau of Meteorology, Aspendale and Melbourne, pp. 108-123. [\[View\]](#)

Synergistic Activities

- 1) Coordinating Lead Author, Chapter 16, Working Group II, Fifth Assessment Report of the Intergovernmental Panel on Climate Change
- 2) Member of the Core Writing Team, Synthesis Report, Fifth Assessment Report of the Intergovernmental Panel on Climate Change

Collaborators and Co-Editors

D Abbs (CSIRO Marine and Atmospheric Research); J Bielicki (ORNL); C Brooke, WWF International; M Clark (Deaken University); S Dessai (University of Exeter), PJ Durack (CMAR); A Ganguly (ORNL); R Gorrdard (CSIRO Sustainable Ecosystems); Kevin Hennessy (CMAR); SMN Islam (Victoria University), A Jolley (VU), R Jones (VU), M Justus (NetBalance Consulting), RC Kay (Coastal Zone Management, Pty Ltd), AW King (ORNL), P Kinrade (Marsden Jacob Associates), I Macadam (University of New South Wales), T Measham (CSIRO SE), K McInnes (CSIRO DSE), S Park (CSIRO CSE), WM Post (ORNL), P Sheehan (VU), T Smith (University of the Sunshine Coast), R Westaway (CSIRO CMAR), P Whetton (CSIRO CMAR), TJ Wilbanks (ORNL), EJ Yuen (CSIRO CMAR)

Graduate and Postdoctoral Advisors and Advisees.

Graduate advisor: Terry Snell, School of Biology, Georgia Institute of Technology

Postdoctoral advisor: William Glaze, Department of Science and Engineering, Oregon Health & Science University

Graduate students: Chiara Danese, Sustainability Policy Institute, Curtin University (2010-Present)

Carmin Elrick, Sustainability Research Center, University of the Sunshine Coast (2011-Present)

Postdoctoral associates: Willis Otieno Shem, ORNL (2010-Present)

Sujithkumar Surendran Nair (2012-Present)