

### Background and Problem Identification Papers

- AWWA Research Foundation, Water Environment Research Foundation (WERF), and UK WIR (2008), *Water Industry Climate Change Research Needs Workshop*, Denver, CO.
- Barsugli, J. J., and C. Anderson (2009), *Options for Improving Climate Modeling to Assist Water Utility Planning for Climate Change*, WUCA, Stratus Consulting, Boulder, CO.
- Bates, B. C., Z. W. Kundzewicz, S. Wu, and J. P. Palutikof (2008), *Climate Change and Water. Technical Paper of the Intergovernmental Panel on Climate Change*, IPCC Secretariat, Geneva.
- Brekke, L., J. Kiang, J. Olsen, R. Pulwarty, D. Raff, D. Turnipseed, R. Webb, and K. White (2009), *Climate change and water resources management—A federal perspective*, Circular, USGS.
- Climate Change and Western Water R&D Group (2008), *R&D Roadmap - Managing Western water as climate changes*, Workshop Handout, NOAA, US Dept. Interior, USGS, Denver, CO.
- Committee on Strategic Advice on the U.S. Climate Change Science Program, and National Research Council (2007), *Evaluating Progress of the U.S. Climate Change Science Program: Methods and Preliminary Results*, National Academies Press, Washington, D.C.
- Cromwell, J., J.B. Smith, and R. Raucher (2007), *Implications of Climate Change for Urban Water Utilities*, Association of Metropolitan Water Agencies, Washington, D.C.
- Florida 2030 (2008), *Climate Change Draft Report of the Climate Change Committee of the American Water Works Association*. [online] Available from: [http://www.fsawwa.org/apps/Draft %20Issue %20 Papers/ FL2030\\_ClimateChange\\_09-23-08.pdf](http://www.fsawwa.org/apps/Draft%20Issue%20Papers/FL2030_ClimateChange_09-23-08.pdf)
- Frederick, K. D., and D. C. Major (1997), Climate change and water resources, *Climatic Change*, 37(1), 7–23
- Gleick, P. H., and D. B. Adams (2000), Water: the potential consequences of climate variability and change for the water resources of the United States, *Report for the US. Global Change Research Program*.
- National Center for Atmospheric Research (NCAR) (2005), *Incorporating Climate Change Information in Water Utility Planning: A Collaborative, Decision Analytic Approach*, Draft Report, Water Research Foundation, Boulder, CO.
- Nelson, B., M. Schmitt, R. Cohen, N. Ketabi, and R. Wilkinson (2007), In Hot Water: Water Management Strategies to Weather the Effects of Global Warming, *Natural Resource Defense Council*.
- Stern, P. C., and W. E. Easterling (1999), *Making climate forecasts matter*, National Academies Press.

### Discussion and Research-Based Case Studies

- Balling Jr, R. C., and P. Gober (2007), Climate variability and residential water use in the city of Phoenix, Arizona, *J. App. Meteor. Climatol.* 46, 1130-1137.
- Hamlet, A. F. (2010), Assessing water resources adaptive capacity to climate change impacts in the Pacific Northwest Region of North America, *Water resources*, 7, 4437–4471.
- Means, E., R. Patrick, L. Ospina, and N. West (2005), Scenario planning: A tool to manage future water utility uncertainty, *Journal American Water Works Association*, 97(10), 68–75.
- New, M., A. Lopez, S. Dessai, and R. Wilby (2007), Challenges in using probabilistic climate change information for impact assessments: an example from the water sector, *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 365(1857), 2117.
- NYC DEP (2008), *NYC DEP Climate Change Program: Assessment and action plan*, NYC Department of Environmental Protection, New York, NY.
- Rayner, S., D. Lach, and H. Ingram (2005), Weather forecasts are for wimps: why water resource managers do not use climate forecasts, *Climatic Change*, 69(2), 197–227.
- Rosenzweig, C., D. C. Major, K. Demong, C. Stanton, R. Horton, and M. Stults (2007), Managing climate

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- change risks in New York City's water system: assessment and adaptation planning, *Mitigation and Adaptation Strategies for Global Change*, 12(8), 1391–1409.
- SFWMD Interdepartmental Climate Change Group (2009), *Climate change and water management in south Florida*, White Paper, South Florida Water Management District (SFWMD), West Palm Beach, FL.
- Snover, A. K., A. F. Hamlet, and D. P. Lettenmaier (2003), Climate-change scenarios for water planning studies: Pilot Applications in the Pacific Northwest., *Bull. Amer. Meteor. Soc.*, **84**, 1513–1518.
- Stratus Consulting (2010), *Overview of Climate Change Adaptation in the Southeastern United States with a Focus on Water and Coastal Resources*, Draft Discussion Paper, U.S. EPA, Boulder, CO.
- Sankarasubramanian, A., U. Lall, A. Sharma, and G. Guidotti (2003), Utility of climate information based reservoir inflow forecasts in annual water allocation—Ceará Case Study, in *NOAA workshop on Insights and Tools for Adaptation: learning from Climate Variability*.
- Van der Brugge, R., J. Rotmans, and D. Loorbach (2005), The transition in Dutch water management, *Regional Environmental Change*, 5(4), 164–176.
- Van der Brugge, R., and R. de Graaf (2010), Transforming water infrastructure by linking water management and urban renewal in Rotterdam, in *Infrastructure Systems and Services: Building Networks for a Brighter Future (INFRA)*, 2008 First International Conference on, pp. 1–7.
- Voisin, N., A. F. Hamlet, L. P. Graham, D. W. Pierce, T. P. Barnett, and D. P. Lettenmaier (2006), The role of climate forecasts in western US power planning, *J. Appl. Meteor. Climatol.* 45, 653–673.
- Water UK (2007), *A climate change adaptation approach for asset management planning v. 1.0*, Water UK.
- Yates, D., D. Purkey, J. Sieber, A. Huber-Lee, H. Galbraith, J. West, S. Herrod-Julius, C. Young, B. Joyce, and M. Rayej (2009), Climate driven water resources model of the Sacramento Basin, California, *Journal of Water Resources Planning and Management*, 135, 303.

#### Relevant Quantitative Academic Research

- Cayan, D. R., P. D. Bromirski, K. Hayhoe, M. Tyree, M. D. Dettinger, and R. E. Flick (2008), Climate change projections of sea level extremes along the California coast, *Climatic Change*, 87, 57–73.
- Chan, S. C., and V. Misra (2010), A Diagnosis of the 1979–2005 Extreme Rainfall Events in the Southeastern United States with Isentropic Moisture Tracing, *Mon. Wea. Rev.*, **138**, 1172–1185
- Groves, D. G., D. Yates, and C. Tebaldi (2008), Developing and applying uncertain global climate change projections for regional water management planning, *Water Resour Res*, 44.
- Hamill, T. M., J. S. Whitaker, and X. Wei (2004), Ensemble reforecasting: Improving medium-range forecast skill using retrospective forecasts, *Monthly Weather Review*, 132, 1434–1447.
- Horton, R., C. Herweijer, C. Rosenzweig, J. Liu, V. Gornitz, and A. C. Ruane (2008), Sea level rise projections for current generation CGCMs based on the semi-empirical method, *Geophysical Research Letters*, 35(2), L02715.
- Hwang, S., W. Graham, J. Hernandez, C. Martinez, J. W. Jones, and A. Adams (submitted 2010), Quantitative spatiotemporal evaluation of the dynamically downscaled MM5 precipitation predictions over the Tampa Bay region, Florida, *Journal of Hydrometeorology*.
- Jentgen, L., H. Kidder, R. Hill, and S. Conrad (2007), Energy management strategies use short-term water consumption forecasting to minimize cost of pumping operations, *Journal American Water Works Association*, 99(6), 86–94.
- Johnson, N. (2010), *Water Allocation Under Climatic Variability: Statistical Analysis of Water Resource Modeling and Drought Operation in the Apalachicola Chattahoochee Flint River Basin*, M.E. Thesis, Department of Agricultural and Biological Engineering, University of Florida, Gainesville, FL.

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- Lynn, B. H., C. Rosenzweig, R. Goldberg, D. Rind, C. Hogrefe, L. Druryan, R. Healy, J. Dudhia, J. Rosenthal, and P. Kinney (2010), Testing GISS-MM5 physics configurations for use in regional impacts studies, *Climatic change*, 99(3), 567–587.
- Miller, K., and D. Yates (2007), *Climate Change and Water Resources: A Primer for Municipal Water Providers*, American Water Works Research Foundation.
- Obeysekera, J., M. Irizarry, J. Park, J. Barnes, and T. Dessalegne (2010), Climate change and its implications for water resources management in south Florida, *Stochastic Environmental Research and Risk Assessment*, 1–22.
- Sankarasubramanian, A., U. Lall, N. Devineni, and S. Espinueva (2010), The role of monthly updated climate forecasts in improving intraseasonal water allocation. *J. Appl. Meteor. Climatol.*, 48, 1464–1482.
- Sankarasubramanian, A., U. Lall, and S. Espinueva (2008), Role of retrospective forecasts of GCMs forced with persisted SST anomalies in operational streamflow forecasts development, *Journal of Hydrometeorology*, 9, 212–227.
- Sankarasubramanian, A., U. Lall, F. A. Souza Filho, and A. Sharma (2009), Improved Water Allocation Utilizing Probabilistic Climate Forecasts: Short Term Water Contracts in a Risk Management Framework, *Water Resources Research*, 45(11), W11409.
- Towler, E., B. Rajagopalan, R. S. Summers, and D. Yates (2010), An approach for probabilistic forecasting of seasonal turbidity threshold exceedance, *Water Resources Research*, 46(6), W06511.
- Vrac, M., M. L. Stein, K. Hayhoe, and X. Z. Liang (2007), A general method for validating statistical downscaling methods under future climate change, *Geophys. Res. Lett.*, 34.