

**James L. Buizer**  
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**Employment**

**University of Arizona (2011-Present) *Professor and Research Scientist, School of Natural Resources and the Environment; Director of Climate Adaptation and International Development, and Deputy Director, Institute of the Environment***

Principal Investigator and Co-Director, *Integrating Climate Information and Decision Processes for Regional Climate Resilience Program* – with Columbia University - in the Caribbean, South and Southeast Asia and West Africa, funded by NOAA & USAID (2013-2018)

**External Appointments:** Chairman, Board of Directors, National Council for Science and the Environment; Vice Chairman, Board of Directors, Second Nature; Chairman, Senior Advisory Board, Regional Integrated Multi-Hazard Early Warning System for Africa and Asia, Thailand; Board on Global Strategies, American Meteorological Society; Advisory Board for Planet Forward; Task Force on Operational and Resource Planning, Global Framework for Climate Services, World Meteorological Organization, Steering Committee, Consortium on Climate Risk in the Urban Northeast; Senior Sustainability Scientist, Arizona State University (ASU) Global Institute of Sustainability; Affiliate Scholar, Consortium for Science, Policy & Outcomes, ASU; Editorial Board, *Environments*; Presidents' 2017 Climate Leadership Summit Program Committee

**Recent Past Appointments:** Board of Directors, Foundation for Earth Science; Interim Executive Director, National Council for Science and the Environment; Executive Secretariat, Development & Advisory Committee for the U.S. National Climate Assessment; Panel on Adapting to Impacts of Climate Change of the U.S. National Academies of Sciences Study: America's Climate Choices; Advisory Board for The Security & Sustainability Forum; Strategic Advisor, Pegasus Capital Advisors, LP; Advisory Committee, U.S. Council on Competitiveness; Chairman, Climate Adaptation Working Group, American College and University Presidents' Climate Commitment; Executive Management Committee, Arizona Science & Technology Festival; AAAS Review Committee for the Inter-American Institute for Global Change Research; National Council of Environmental Deans and Directors; Reviewer, for the AAAS-administered People, Planet and Prosperity Program of the Environmental Protection Agency; Review Panel for the EPA STAR Graduate Fellowship Applications program; Vice-Chairman, Board of Directors, Association for the Advancement of Sustainability in Higher Education.

**Arizona State University (2007-2011) *Senior Science Policy Advisor to the President; Executive Director for Strategic Institutional Transformation, Office of the President; Professor of Practice in Climate Adaptation Policy & Institutional Design, School of Geographical Sciences and Urban Planning; and Director, University Center for Integrated Solutions to Climate Challenges.*** Provided the University President and other university leadership with strategic guidance for the transition toward the “*New American University.*” Instructed, guest lectured, served on graduate student committees, and conducted research on climate adaptation policy, institutional design, bridging science to solutions, sustainability & related fields. Served on the University Leadership Council, the Executive Committee of the Global Institute of Sustainability

**Arizona State University (2003 - 2007) *Special Advisor to the President & Founding Executive Director, Office of Sustainability Initiatives, Office of the President.*** Led conceptualization, design and establishment of the university-wide *Global Institute of Sustainability* and its degree-granting *School of Sustainability*.

**National Oceanic & Atmospheric Administration (1995 - 2003) *Director, Climate and Societal Interactions Division & Assistant Director, Office of Global Programs.*** Responsible for providing design, leadership, budget formulation and overall financial accountability of NOAA's integrated, multidisciplinary research and applications program positioned at the climate and societal interface. These included the Regional Integrated Sciences and Assessments (RISA) Program, the International Applications Research Program, the International Research Institute for Climate and Society (IRI), the Inter-American Institute for Global Change Research (IAI), the Science and Technology for Sustainable Development Program, the Health and Human Dimensions Research Program, among others.

**National Oceanic & Atmospheric Administration (1985 -1995) *Program Manager, Research Applications Program, Office of Global Programs.*** Responsible for the design, implementation and management of national and international physical/social science research and applications programs aimed at providing "environmental solutions" for decisions, by linking the impacts of the physical climate system to social and economic processes.

### **Education**

*Master in Marine Affairs*, School of Marine Affairs, University of Washington (1984)  
- Senator, Graduate and Professional Student Senate and Student Representative to Faculty.

*Graduate Certificate, Integrative Program in Administration*, Graduate School of Business  
University of Washington (1983)

*Bachelor of Science*, Department of Oceanography, University of Washington (1982)

### **Selected Publications**

**Rountree, V.**, Buizer, J., de Steiguer, J.E. "Mainstreaming Climate Adaptation in Caribbean Island Country Partnership Strategies: Progress or Stagnation?" (In review, submitted to *Climate and Development* February 2016)

Jacobs, K.L., **J.L. Buizer** and S.C. Moser, 2016. The Third US National Climate Assessment: Innovations in Science and Engagement.

Jacobs, K., and **J.L. Buizer**, 2016. Foreword to *Climate in Context: Science and Society Partnering for Adaptation*. New York, Wiley.

Hart, D.L., **J. L. Buizer**, J. A. Foley, L. E. Gilbert, L.J. Graumlich, A. R. Kapuscinski, J. G. Kramer, M. A. Palmer, D. R. Peart, L. Silka, 2016. Mobilizing the power of higher education to tackle the grand challenge of sustainability: Lessons from novel initiatives. *Elementa: Science of the Anthropocene* doi: 10.12952/journal.elementa.000090.

Rahman, T. and **J. Buizer** (*Forthcoming*) Evaluating a Climate Information Service Program

Using Survey and Experimental Data. In *Evaluating Climate Change for Sustainable Development*. Edited by Juha I. Uitto, Jyotsna Puri, and Rob D. van den Berg, Springer Verlag GmbH, 2016.

Moser, S.C., J.M. Melillo, K.L. Jacobs, R.H. Moss, **J.L. Buizer**, 2015. Aspirations and Common Tensions: Larger Lessons from the Third U.S. National Climate Assessment. *Climatic Change* doi: 10.1007/s10584-015-1530-z

Jacobs, K.L. and **J.L. Buizer**, 2015. Building community, credibility and knowledge: the third U.S. National Climate Assessment. *Climatic Change* doi:10.1007/s10584-015-1445-8

Rahman, T., **J. Buizer**, and Z. Guido, 2015. Economic Valuation of Seasonal Forecast Information Service in Jamaica, 2014-2015. A report prepared for Engility Corporation, Chantilly, VA

**Buizer, J.L.**, K. Dow, M.E. Black, K.L. Jacobs, A. Waple, R.H. Moss, S. Moser, D.I. Gustafson, T.C. Richmond, S.L. Hays, C.B. Field, 2015. Building a Sustained Climate Assessment Process. *Climatic Change* doi:10.1007/s10584-015-1501-4

Guido, Z., **J. Buizer**, T. Finan, S. Gavin, A. Gerlak, L. Goddard, C. Greene, Johnson, R., D. Liverman, S. Mason, A. Muñoz, 2014. An International Research and Applications Project (IRAP) Caribbean Workshop Report: Integrating Climate Information and Decision Processes for Regional Climate Resilience. University of Arizona and International Research Institute for Climate and Society. pp. 48.

Hall, J. A., M. Blair, **J.L. Buizer**, D. I. Gustafson, B. Holland, S. C. Moser, and A. M. Waple, 2014: Ch. 30: Sustained Assessment: A New Vision for Future U.S. Assessments. *Climate Change Impacts in the United States: The Third National Climate Assessment*, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program, 719-726. doi:10.7930/J000001G.

Jacoby, H. D., A. C. Janetos, R. Birdsey, **J. Buizer**, K. Calvin, F. de la Chesnaye, D. Schimel, I. Sue Wing, R. Detchon, J. Edmonds, L. Russell, and J. West, 2014: Ch. 27: Mitigation. *Climate Change Impacts in the United States: The Third National Climate Assessment*, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program, 648-669. doi:10.7930/J0C8276J.

**Buizer, J.L.**, P. Fleming, S.L. Hays, K. Dow, C.B. Field, D. Gustafson, A. Luers, R.H. Moss, 2013: *Preparing the Nation for Change: Building a Sustained National Climate Assessment Process*, National Climate Assessment Development and Advisory Committee.

White D. D., R. Quay, D.B. Ferguson, **J.L. Buizer**, Z. Guido, and N. Chhetri, 2013: *Linking climate change science and adaptation policy at the community scale through anticipatory governance: A review of concepts with application to Arizona communities*. Invited presentation for the American Geophysical Union Annual Meeting, San Francisco, CA (Dec 2012)

Wheeler, Q.D., S. Knapp, D. W. Stevenson, J. Stevenson, S. D. Blum, B. M. Boom, G. G. Borisy, **J.L. Buizer**, et al., 2012: *Mapping the biosphere: exploring species to understand the origin, organization and sustainability of biodiversity* in Systematics and Biodiversity. 10:1, 1-20

Van Der Leeuw, S. E., A. D. Wiek, J. Harlow and **J.L. Buizer**. 2012. How much time do we have? Urgency and rhetoric in sustainability science. *Sustainability Science* 7(Supplement 1):115-120. DOI: 10.1007/s11625-011-0153-1

National Research Council. 2011. *America's Climate Choices: Adapting to the Impacts of Climate Change*. (Jacobs and Wilbanks, Chairs). National Academies Press, Washington, D.C.

**Buizer, J.L.**, et al. Higher Education's role in Adapting to a Changing Climate. 2011. American College and University Presidents' Climate Commitment, Boston, MA. ([link](#))

**Buizer, J.L.**, K. Jacobs and D. Cash. 2010. Making short-term climate forecasts useful: Linking science and action. *Proceedings of the National Academy of Sciences*. doi:10.1073/pnas.0900518107 ([link](#))

Jacobs, K., L. Lebel, **J. Buizer**, L. Addams, P. Matson, E. McCullough, P. Garden, G. Saliba, and T. Finan, 2010: Linking Knowledge with Action in the Pursuit of Sustainable Water Resources Management. <http://www.pnas.org/content/early/2010/06/25/0813125107.full.pdf> *Proceedings of the National Academy of Sciences*.

Jacobs, K., G. Garfin and **J. Buizer** 2009 The Science-Policy Interface: Experience of a workshop for climate change researchers and water managers. *Science and Public Policy*. 36(10), pp 791-798.

Jacobs, K., **J. Buizer**, M. Roy, N. Beller-Simms, eds., 2009: *Planning Integrated Research for Decision Support for Climate Adaptation and Water Management: A Focus on Desert and Coastal Cities*. Arizona State University.

Garfin, G., K. Jacobs and **J. Buizer**, 2009: *Climate Change Adaptation Lessons from the Land of Dry Heat*. Webb, R.M.T., and Semmens, D.J., eds. Planning for an uncertain future—Monitoring, integration, and adaptation. Proceedings of the Third Interagency Conference on Research in the Watersheds. U.S. Geological Survey Scientific Investigation Report 2009-5049, 292 p.

*The Global Institute of Sustainability at Arizona State University: A Comprehensive Approach to Sustainability Education* in Proceedings of the International Conference on Sustainability Science. **J. Buizer**, University of Tokyo, Japan (2009)

*Planning Integrated Research for Decision Support for Climate Adaptation and Water Management: A Focus on Desert and Coastal Cities*, Workshop Report, Arizona State University, K. Jacobs, **J. Buizer**, M. Roy, N. Beller-Simms, editors (January 2009)

*Sustainability Science and the American Research University*; in Proceedings of the 5th BMBF Forum for Sustainability: "Research for Sustainability - Driver for Innovation," Federal Ministry of Research and Education, Berlin, Germany, September 23-25, 2008.

Garfin, G., K. Jacobs, **J. Buizer**, 2008: Beyond brainstorming: Exploring climate change adaptation strategies, *Eos*, 89(25): 227. doi: 10.1029/2008EO250007

*Sustainability Thinking Starts at Home*, **J. Buizer**, in Arizona Policy Choices: Sustainability for Arizona, Morrison Institute for Public Policy, ASU, p. 60 (Nov. 2007)

*Report of the External Review Committee Assessment of the Inter American Institute for Global Change Research*, 2007. J. Melillo, A. Rock, A. Rangel, **J. Buizer**, G. Gallopin, M. Gupta, G. McBean, E. Miles, H. Virji, AAAS International Office

*Linking Knowledge with Action in the pursuit of Sustainable Water Resources Management: Summary of a Workshop*; Knowledge Systems for Sustainable Development Project, K. Jacobs and **J. Buizer**, Harvard University (2006)

Cash, D.W., and **J. Buizer**, 2005: *Knowledge-Action Systems for Seasonal to Interannual Climate Forecasting: Summary of a Workshop; Roundtable on Science and Technology for Sustainability*; The National Academies Press, Washington, D.C.

*Climate and Societal Interactions: A Decade of Growth and Exploration*; NOAA Office of Global Programs, **J. Buizer** with OGP Climate and Societal Interactions Staff (2002)

*Global Impacts and Regional Actions: Preparing for the 1997/98 El Niño* in the Bulletin of the American Meteorological Society, Vol. 81, #9, pp. 2121-39; **J. Buizer**, J. Foster, and D. Lund (September 2000)

*Regional cooperation in global change research; unique opportunities and unique challenges*. EOS Transactions, American Geophysical Union 81 (48 suppl.), San Francisco, CA, American Geophysical Union. L.B. Brown, P.E. Filmer, **J. Buizer**, (2000)

*An Experiment in the Application of Climate Forecasts: NOAA Activities Related to the 1997/98 El Niño Event*; **J. Buizer**, NOAA Office of Global Programs (1999)

*Technical Report: Workshop on Regional Climate Prediction and Downscaling Techniques for South America*, Laboratório Nacional de Computação Científica, Petrópolis, Rio de Janeiro, Brazil, September 8-10, 1999. Ed. by T. N. Krishnamurti, C. Tanajura, A.D. Moura, J. Marengo, **J. Buizer**, P. Nobre (1999)

*Research Programs for the Application of Climate Forecast*; **J. Buizer**, Editorial in The ENSO Signal, Issue 10, (July 1998)

*Applying Climate Forecasts: Exploring the El Niño-Infectious Disease Connection*. American Geophysical Union, San Francisco, CA. JM Trtanj & **J. Buizer** (fall 1997)

*International Forum on Forecasting El Niño: Launching an International Research Institute, 6-8 November 1995, Washington, D.C.*; Forum Proceedings, NOAA Office of Global Progr. (1996)

*El Niño y la Predicción Climática*, Versión Español. University Corporation for Atmospheric Research, Boulder, CO, J.M. Wallace, S. Vogel, **J.L. Buizer**, L. Farrow, P.E. Filmer (1994)

*El Niño and Peru: A Nation's Response to Interannual Climate Variability*; in Natural and Technological Disasters: Cause, Effects and Preventive Measures, (pp. 223-238), P. Lagos & **J. Buizer**; Pennsylvania Academy of Science (1992)

*An International Research Institute for Climate Prediction: A Proposal*, as Member of an International Task Group (A. Moura, Chairman) NOAA Office of Global Programs (1992)

### ***Select Accomplishments***

As Convening Lead Author, led the production of *Preparing the Nation for Change: Building a Sustained National Climate Assessment Process*, as recommendations to the U.S Government from the National Climate Assessment Development and Advisory Committee. September 2013.

Designed and launched the University Center for Integrated Solutions to Climate Challenges, ASU, 2011.

Guided production and presentation of ASU Carbon Neutrality Plan in compliance with the American College and University President's Climate Commitment, September 2009.

Led design and launch of ASU's nationally top-ranked and internationally renowned Global Institute of Sustainability (GIOS) as a pan-university program, July 2007.

Co-led conceptualization, design and launch of the American College and University Presidents Climate Commitment (ACUPCC), June 2007.

Led establishment of the ASU School of Sustainability, the first independent degree-granting unit dedicated to sustainability in the world. December 2006.

Led successful effort to secure \$15M in private donor funding for the establishment of the Global Institute of Sustainability at ASU. November 2004.

Led conceptualization of the ASU *Decision Theater*, to serve as a "gateway" between the University and the policy communities for research-based sustainability solutions. May 2005.

Led conceptualization and initial design of Regional Climate Outlook Forums, which have become the *de facto* regional climate information mechanism throughout Africa, Latin America and Asia. October 1996.

Led the design and establishment of the NOAA-funded International Research Institute for Climate and Society at Columbia University (1995).

Led conceptualization and initial design of Regional Integrated Sciences and Assessment (RISA) Program, now recognized as a model for providing science-based climate information to resource managers and policy-makers (1994).

Led NOAA component of the design and establishment of the twenty-three nation Inter-American Institute for Global Change Research (1991).

### ***Awards***

*Nobel Peace Prize*: Shared with approximately 2300 scientists around the world who contributed to the reports of the Intergovernmental Panel for Climate Change "for their efforts to build up

and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change" (2008).

*U.S. Department of Commerce Bronze Medal:* "For Superior Federal Service by leading the multi-Federal Agency operation of climate forecasting applied in support of international relief efforts during the March/April 2000 disastrous floods in southern Africa" (2000).

*U.S. Department of Commerce Bronze Medal:* "For Superior Federal Service in an extraordinary contribution to the design, development and implementation of the 1997/98 El Niño Rapid Response Project which resulted in substantial damage reduction and cost saving for the American people" (1999).

*NOAA Administrator's Award:* "For leadership in formulating and managing the scientific component of the White House Weathercasters Climate Change Conference" (1998).

*NOAA Outstanding Achievement Award:* "For Outstanding Achievement in the Conduct of Federal Service" (annually, 1985 through 2003).

*Sea Grant Executive Fellowship:* selected as Candidate from the State of Washington, and served at NOAA, Office of Oceanic and Atmospheric Research (1984-85).

### ***International Experience***

Principal Investigator and Co-Director, *Integrating Climate Information and Decision Processes for Regional Climate Resilience Program* – with Columbia University - in the Caribbean, South and Southeast Asia and West Africa, funded by NOAA & USAID (2013-2018)

Chaired International Steering Committee for the *International Conference on Sustainability Science*, Arizona State University. February 2012

Served as External Reviewer of the *Graduate Program in Sustainability Science*, University of Tokyo, Tokyo, Japan. January 2009.

Participated actively in the 2008 Nobel Peace Prize winning effort by the Intergovernmental Panel on Climate Change (IPCC) to demonstrate impacts of Climate Change on social and economic systems.

Served as sole External Reviewer of the *Strategic Interdisciplinary Themes* housed in the Office of the President of the Dublin City University; Dublin, Ireland. March 2007.

Served as Lead reviewer on the International Review Team for the *Managing Climate Variability* Program of the Government of Australia; Adelaide, Australia. March 2006.

Served as a lead Advisor to the ASU President at the China-U.S. Presidential Forum on University Design, Chengdu, China. June 2005.

Successfully negotiated bilateral intergovernmental agreements for collaboration in climate science and applications of research results with China, Japan, Taiwan, Indonesia, Korea, France, Italy, Brazil, Chile, Ecuador and Mexico (1986–2003).

Served as Select Member of Official U.S. Delegations to numerous international forums such as meetings of the Asia-Pacific Economic Community (APEC) the South Pacific Forum, the Summit of the Americas, the United Nations World Meteorological Organization and Intergovernmental Oceanographic Commission (1988-2003).

Served as NOAA Representative on environmental and scientific missions to more than 40 countries around the world (1984–2003).

Organized and convened more than 25 International Conferences and Workshops dedicated to advancing the understanding of challenges and opportunities in the application of climate information for practical use in decision processes (1988-2003).

Served as Advisor to high-level U.S. State Department-led climate bilateral negotiations with China, Korea, Australia, New Zealand, Mexico and Brazil (2002-2003).

Served as Vice Chairman on the International Working Group of the Inter-Agency Committee governing the U.S. Global Change Research Program (1992-2003).

Served as advisor to the Organization of American States (OAS), The World Bank, the Asia Development Bank (ADB), the Inter-American Development Bank (IDB), and the U.S. Agency for International Development (USAID) on climate issues (1988-2003).

Participated as Member on 12 Official U.S. Delegations to Meetings of the Executive Council and Conference of the Parties of the Inter-American Institute for Global Change (1992-2002).

### ***Special Projects***

*Intergovernmental Panel on Climate Change:* Led the U.S. Government Review of the Third Assessment Report of the IPCC Working Group II (2000).

*White House Weathercasters Climate Change Conference:* Designed and managed the scientific component of the Conference led by President Clinton and Vice President Al Gore (1997).

*International Forum on Forecasting El Niño: Launching an International Research Institute:* Directed all aspects of design, implementation and follow-up of this Ministerial-level Conference of over 300 representatives from 40 nations and 22 international organizations (1995).

*White House Conference on Science and Economics of Global Change:* Coordinated aspects related to the participation of International Ministerial-level participants at this meeting hosted by President George Bush & attended by 8 U.S. Cabinet Members (1990).

***Languages:*** Professional fluency (native) in *Spanish*; moderate proficiency in *Portuguese*.