

Gregg M. Garfin

Program Manager

CLIMAS: Climate Assessment for the Southwest

Institute for the Study of Planet Earth

The University of Arizona

Tucson, AZ 85721-0156

gmgarfin@email.arizona.edu

520-622-9016

Areas of Professional Expertise

- Climate Variability and Drought – Conducted research on multi-year drought in the Southwest. Co-developed Arizona's drought monitoring system; co-chair Arizona Drought Monitoring Technical Committee. Invited speaker on Southwest drought and climate change at national and regional conferences and stakeholder workshops. Member of the climate science team for the Decision Center for a Desert City, NSF center for decision making under uncertainty.
- Decision Support – Co-developed multi-agency scientist-stakeholder process to evaluate, annually, pre-season fire potential for the United States. Conducted annual fire-climate workshops.
- Knowledge Transfer – Developed monthly climate information product for the southwestern United States. Conducted year-long project to evaluate stakeholder use of US climate products through workshops, interviews, surveys. Conducted web site usability study.
- Paleoclimatology – Ph.D. from the University of Arizona Laboratory of Tree-Ring Research. Conducted research on the past climate of the western US, China, the Mediterranean region, the Middle East. Co-organized 2005 stakeholder workshop on the use of paleohydrological data for Colorado River Basin water resources management.
- Climate Change – Author on climate change chapter in Colorado River Basin Climate: Paleo, Present, Future. Member Arizona Governor's Forest Health Advisory Committee Climate Change Subgroup. Member New Mexico Climate Change and Water Resources Committee.

Education

1992-1998 Ph.D. The University of Arizona; *Major field: Geosciences; Minor field: Geography*

1989-1992 M.S. University of Massachusetts; *Major field: Geography*

1987-1989 B.S. University of Massachusetts; *Major field: Geography*

Academic Work Experience

2003-Present Institute for the Study of the Planet Earth, The University of Arizona *Program Manager, Climate Assessment for the Southwest Project*

2005-Present Department of Geography and Regional Development, The University of Arizona, *Adjunct Assistant Professor*

2000-2003 Institute for the Study of the Planet Earth, The University of Arizona *Assistant Staff Scientist for the Climate Assessment for the Southwest Project*

1999 Laboratory of Tree-Ring Research, The University of Arizona *Consultant*

1998 Department of Geography, University of Oregon *Instructor, Physical Geography*

1992-1998 Laboratory of Tree-Ring Research, The University of Arizona *Graduate Research Associate*

1989-1992 Department of Geology and Geography, University of Massachusetts *Graduate Research Assistant*

Selected Service

2003-present Co-Chair, Arizona Governor's Drought Task Force Monitoring Technical Committee

2003-2004 Member, National Integrated Drought Information System – Integrated Team

2002-present Contributor, U.S. Drought Monitor

1998-present Reviewer, *International Journal of Climatology; Climate Research; Climatic Change; Weather and Forecasting; Journal of the American Water Resources Association; Tree-Ring Bulletin*

Selected Publications

- Garfin, G**, Crimmins, MA, Jacobs, K, 2006. Drought, Climate Variability and Implications For Water Supply And Management. In Colby, BG and Jacobs, K (eds), *Arizona Water Policy: Management Innovations In An Urbanizing, Arid Region*. Resources for the Future, Washington, DC (forthcoming).
- Ray, AJ, **Garfin, GM**, Wilder, M, Vasquez-Leon, M, Lenart, M, Comrie, AC, 2006. Applications of Monsoon Research: Opportunities to Inform Decisionmaking and Reduce Regional Vulnerability. *Journal of Climate* (forthcoming).
- Sonnett, J, Morehouse, BJ, Finger, TD, **Garfin, G**, Rattray, N, 2006. Drought and Declining Reservoirs: Comparing Media Discourse in Arizona and New Mexico, 2002–2004. *Global Environmental Change* 16: 95–113.
- Jacobs, K, **Garfin, G**, Lenart, M, 2005. More Than Just Talk: Connecting Science and Decisionmaking. *Environment* 47(9): 6-21.
- Jacobs, K, **Garfin, GM**, Morehouse BJ, 2005. Climate Science and Drought Planning: the Arizona Experience. *Journal of the American Water Resources Association* 41(2): 437-445.
- Garfin, GM**, 2005. Fire Season Prospects Split East of the Rockies. *Wildfire* (March/April).
- Garfin, G**, 2005. Climate Change in the Colorado River Basin. In *Colorado River Basin Climate: Paleo, Present, Future*, pp. 36-44. http://www.colorado.edu/resources/colorado_river/Colorado_River_Basin_Climate.pdf
- Jacobs, K, and **Garfin, GM**, 2004. Arizona's Drought Planning: Focusing on Adaptation. *Water Resources Impact* 6(4): 14-17.
- Lenart, M, **Garfin, GM**, and Overpeck, JT, 2004. The Heat is On. *Sonorensis* 24(1): 20-28.
- Garfin, GM**, Wordell T, Brown T, Ochoa R, and Morehouse B. 2003. The 2003 National Seasonal Assessment Workshop: A Proactive Approach to Preseason Fire Danger Assessment. American Meteorological Society 5th Symposium on Fire and Forest Meteorology: Extended Abstracts. Boston: AMS.
- Garfin, GM**, and Morehouse BJ, 2003. Climate Information and Water Resource Management: Two Initiatives in the Southwest. In Symposium on Impacts of Water Variability: Benefits and Challenges, American Meteorological Society 83rd Annual Meeting: Extended Abstracts. Boston: AMS.
- Garfin, GM**, and Morehouse, BJ, 2001. Facilitating Use of Climate Information for Wildfire Decision Making in the U.S. Southwest. Proceedings of the 4th Symposium on Forest and Fire Meteorology, Reno, NV.
- Garfin, GM**, and Morehouse, BJ, (eds.) 2001. 2001 Fire & Climate Workshops. CLIMAS, The University of Arizona, Tucson, Arizona.

Selected Presentations

- 2006 "Climate Change, the West, and Water Resources" at the Western States Water Council: Water Needs and Strategies for a Sustainable Future, Washington, DC (invited)
- 2005 "Weathering the "Big One" -- A Review of Coping with Severe Sustained Drought in the Southwest" at the New Mexico Drought Summit, Albuquerque, NM (invited; with N Haas)
- 2005 "RISA Drought Insights for CCSP" at the U.S. Climate Change Science Program workshop, Arlington, VA (invited; with RISA project managers)
- 2005 "Contributions of Regional Integrated Assessment to Coping with Vulnerability to Climate in Central Arizona" at the Association of American Geographers Annual Meeting, Denver, CO
- 2004 "Climate Information, Stakeholder Insights, and Arizona Drought Planning" at the Association of American Geographers Annual Meeting, Philadelphia, PA (also session organizer)
- 2004 "Putting Recent US and Southwest Drought Impacts in Perspective" at the American Meteorological Society Annual Meeting, Seattle, WA (invited)
- 2003 "Arizona Drought Challenges" at the Interim National Drought Council, Albuquerque, NM (invited)
- 2003 "The 2003 National Seasonal Assessment Workshop: A Proactive Approach to Preseason Fire Danger Assessment. American Meteorological Society 5th Symposium on Fire and Forest Meteorology, Orlando, FL (with T Wordell, T Brown, R Ochoa, B Morehouse)

Selected Professional Memberships

American Association for the Advancement of Science, American Meteorological Society, Arizona Hydrological Society, Association of American Geographers, Tree-Ring Society