

Ecosystem Ecology and Global Climate Change

Dr. J. Boone Kauffman
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Education

B.S. Range and Wildlife, 1978, Texas Tech University
M.S. Ecology, 1982, Oregon State University
Ph.D. Forest Ecology, 1986, University of California, Berkeley

Research Interests/Duties

Dr. Kauffman is Director of the Institute of Pacific Islands Forestry responsible for administrating and directing the Institute's research programs and those on the Hawaii Experimental Tropical Forest. Research interests include tropical ecosystems ecology, biodiversity, and restoration, dynamics of forest C pools, land use, global climate change, and wetlands/riparian ecology and restoration.

Current Emphases, Studies, Projects

- Establishment of research infrastructure and long term studies at the Hawaii Experimental Tropical Forest.
- Impacts of typhoons on the structure and function of mangrove ecosystems in the western Pacific.
- The invasive species/wildfire cycle in tropical island landscapes.
- Interactions of global climate change, land use and native ecosystems: developing adaptation and mitigation strategies to achieve ecosystem sustainability.

Selected Publications

As of 2008 Kauffman has authored or co-authored over 130 scientific papers and chapters. A few of interest include:

Kauffman, J. B., R. F. Hughes, and C. Heider. 2009. Dynamics of C and nutrient pools associated with land conversion and abandonment in Neotropical landscapes. *Ecological Applications* (In press).

Ainsworth, A., and J.B. Kauffman. 2009. Response of native Hawaiian woody species to lava-ignited wildfires in tropical forests and shrublands. *Plant Ecology* (In press).

Donato, D.C., J.B. Fontaine, W.D. Robinson, J. Boone Kauffman, and B.E. Law. 2008. Vegetation response to a short interval between high-severity wildfires in a mixed-evergreen forest. *Journal of Ecology* 97:142-154.

Donato, D.C., J.B. Fontaine, J.L. Campbell, W.D. Robinson, J.B. Kauffman, and B.E. Law. 2006. Post-wildfire logging hinders regeneration and increases fuel risk. *Science* 311: 352.

Beschta, R.L., J.J. Rhodes, J. B. Kauffman, R.E. Gresswell, G.W. Minshall, J.R. Karr, D.A. Perry, F.R. Hauer, and C.A. Frissel. 2004. Postfire management on forested lands of the western United States. *Conservation Biology*. 18: 957-967.

Kauffman, J. B., A.S. Thorpe, and E. N. J. Brookshire. 2004. Livestock exclusion and belowground ecosystem responses in riparian meadows of Eastern Oregon. *Ecological Applications* 16:1671-1679.