

**Volker C. Radeloff**  
**Assistant Professor, Department of Forest Ecology and Management**

**Academic and Professional History:**

- Completed a M.Sc. in Geography (GIS) at the University of Edinburgh in 1995.
- Completed a Ph.D. in Forestry at the University of Wisconsin-Madison in 1998.
- Became a faculty member at the University of Wisconsin-Madison in the Department of Forest Ecology and Management in 2000.

**Research focus:** I am a geographer and landscape ecologist. My methodological background is in remote sensing, geographical information systems and statistics, approaches that I apply to research questions in ecology, and conservation biology. My research focuses broadly speaking on landscape change, and I am interested in both causes for landscape change, such as natural disturbances, and land use patterns, as well as the effects of these changes on landscape pattern, commodity production and wildlife habitat. In the U.S., several projects have examined housing growth patterns in forested regions, and the resulting habitat fragmentation. This work was done interdisciplinary in close collaboration with demographers at the Department of Rural Sociology. Internationally, I am involved in projects examining land use change in Eastern Europe after the breakdown of the Soviet Empire and its consequences for biodiversity.

**Graduate Training focus:** My teaching responsibilities in the Department of Forest Ecology and Management consist of courses on Forest Biometry and Remote Sensing of Forest Ecosystems (both at the undergraduate and graduate level). I advise graduate students and have been a member of M.S. and Ph.D. student thesis committees in Botany, Geography, Forest Ecology and Management, and at the Institute of Environmental Science.

**Selected Current Research Support:**

- Radeloff, V. C. 2003. Post-USSR land cover change in Eastern Europe – socioeconomic forcings, effects on biodiversity, and future scenarios. NASA New Investigator Program, 2004-2007, \$359,858.
- Radeloff, V.C., and R.B. Hammer. 2002. The Wildland-Urban Interface across the US. USDA Forest Service North-Central Research Station, 2002-2007; a cluster of six proposals, \$855,000.

**Selected Publications:**

- Akçakaya, H. R., V. C. Radeloff, D. J. Mladenoff and H. S. He. 2004. Integrating landscape and metapopulation modeling approaches: Viability of the Sharp-tailed Grouse in a dynamic landscape. *Conservation Biology*, in press
- Pidgeon, A. M., V. C. Radeloff, and N. E. Mathews. 2003. Landscape scale patterns of Black-throated Sparrow (*Amphispiza bilineata*) abundance and nest success. *Ecological Applications* 13(2):530-542.
- Radeloff, V. C., R. G. Hammer, P. R. Voss, A. E. Hagen, D. R. Field, and D. J. Mladenoff. 2001. Human demographic trends and landscape level forest management in the northwest Wisconsin Pine Barrens. *Forest Science*, 47(2):229-241.
- Radeloff, V. C., D. J. Mladenoff, and M. S. Boyce. 2000. Effects of interacting disturbances on landscape patterns: budworm defoliation and salvage logging. *Ecological Applications* 10(1):233-247.
- Radeloff, V. C., D. J. Mladenoff, H. S. He, and M. S. Boyce. 1999. Forest landscape change: The northwest Wisconsin Pine Barrens before European settlement and today. *Canadian Journal of Forest Research* 29(11):1649-1659.