

# TAYLOR H. RICKETTS

CONSERVATION SCIENCE PROGRAM  
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## AREAS OF INTEREST

Community and landscape ecology, ecosystem services, ecological economics, conservation biology, environmental policy, biogeography

## PROFESSIONAL EXPERIENCE

World Wildlife Fund – USA

Managing Director, Conservation Science Program 2008-present  
Director, Conservation Science Program 2002-2008

- Lead a group of 25 scientists who conduct research and advise WWF field programs worldwide. Annual budget ~ \$2.8 million. ([www.worldwildlife.org/science](http://www.worldwildlife.org/science))
- Co-founder of the Natural Capital Project, a partnership among WWF, The Nature Conservancy, Stanford University, and U. Minnesota to map and value ecosystem services worldwide ([www.naturalcapitalproject.org](http://www.naturalcapitalproject.org)).
- Started and oversee Kathryn Fuller Science for Nature Fund, which links researchers with conservation through fellowships, symposia, seminars, sabbaticals, and small grants ([www.worldwildlife.org/fellowships/fuller.cfm](http://www.worldwildlife.org/fellowships/fuller.cfm)).

University of Maryland, Department of Biology 2003-present  
Adjunct Assistant Professor

Stanford University 2000-2002  
Post-doctoral researcher, Biological Sciences

Zegrahm Expeditions 1991-1995  
Lecturer and Expedition Leader for remote nature tours

## EDUCATION

Stanford University: Ph.D. in Biological Sciences 2000  
(Committee: Paul Ehrlich, Gretchen Daily, Hal Mooney, Peter Vitousek)

Dartmouth College: B.A. magna cum laude in Earth Sciences, Environmental Studies 1991

## PUBLICATIONS

### Books

Fisher, B., R. Naidoo, **T.H. Ricketts** (in prep). *A conservation field guide to economics*. Roberts and Company.

Kareiva, P., H. Tallis, **T.H. Ricketts**, G.C. Daily, & S. Polasky, eds. (in press). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.

- National Research Council of the National Academies. 2006. *Status of pollinators in North America*. National Academies Press, Washington, D.C.
- Burgess, N. D., J. A. D' Amico Hales, E. Underwood, E. Dinerstein, D. Olson, J. Schipper, **T.H. Ricketts**, I. Itoua and K. Newman. 2004. *Terrestrial ecoregions of Africa and its islands: a conservation assessment*. Island Press, Washington D.C.
- Alcamo, et al. 2003. *Ecosystems and human well-being: A framework for assessment*. Island Press. Washington DC. 245 pp.
- Ricketts, T.H.**, E. Dinerstein, D.M. Olson, C.J. Loucks, W. Eichbaum, K. Kavanagh, P. Hedao, P. Hurley, K.M. Carney, R. Abell, and S. Walters. 1999. *Ecoregions of North America: A conservation assessment*. Island Press. Washington DC. 485 pp.

### **Journal articles and book chapters**

- Ricketts, T.H.** and E. Lonsdorf (in prep). Mapping the margin: comparing marginal values of forest remnants for ecosystem services.
- Butchart, S.H., J.P.W. Scharlemann, M. Evans, S. Quader, S. Aricò, J. Arinaitwe, M. Balman, L.A. Bennun, C. Besançon, T Boucher, B. Bomhard, T.M. Brooks, I.J. Burfield, N.D. Burgess, S. Chan, R.P. Clay, M.J. Crosby, N.C. Davidson, N. De Silva, C. Devenish, G.C. L. Dutson, D.F. Díaz Fernández, L.D. C. Fishpool, C. Fitzgerald, M. Foster, M.F. Heath, M. Hockings, M. Hoffmann, D. Knox, F. Larsen, J.F. Lamoreux, C. Loucks, I. May, J. Millett, D. Molloy, P. Morling, M. Parr, **T.H. Ricketts**, B. Skolnik, A. Upgren, S. Woodley (in review). Protected area coverage of priority sites for biodiversity conservation. *Nature*.
- Grand, J., M.P. Cummings, T. G. Rebelo, **T.H. Ricketts**, and M.C. Neel (in review). Reserve network selection: The potentially high value of low-quality species data. *Conservation Letters*.
- Abell, R., M. Thieme, **T.H. Ricketts**, N. Olwero, R. Ng, P. Petry, E. Dinerstein, C. Revenga, J. Hoekstra (in press). Concordance of freshwater and terrestrial biodiversity. *Conservation Letters*.
- Swetnam, R. D., B. Fisher, B. P. Mbilinyi, P. K. Munishi, S. Willcock, **T.H. Ricketts**, S. Mwakalila, A. Balmford, N.D. Burgess, A.R. Marshall, S.L. Lewis (in press). Mapping socio-economic scenarios of land cover change: a GIS method to enable ecosystem service modelling. *Journal of Environmental Management*.
- Lonsdorf, E., **T. H. Ricketts**, C. Kremen, R. Winfree, S. Greenleaf, and N. Williams (in press). Crop Pollination. in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Daily, G.C., P. Kareiva, S. Polasky, **T. H. Ricketts**, H. Tallis (in press). Mainstreaming Natural Capital into Decisions, in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Polasky, S., G. Caldarone, T. K. Duarte, J. Goldstein, N. Hannahs, **T. H. Ricketts**, and H. Tallis (in press). Putting Ecosystem Service Models to Work: Conservation, Management and Tradeoffs. in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Conte, M., E. Nelson, K. Carney, C. Fissore, N. Olwero, A. Plantinga, W. Stanley, and **T. H. Ricketts** (in press). Terrestrial Carbon Sequestration and Storage. in Kareiva, P. et al. (eds). *Natural capital: Theory and practice of mapping ecosystem services*. Oxford University Press.
- Florez, J.A.; M.A. Guzmán, **T.H. Ricketts**, R. Vandame (in press). Café y abejas: conservación y producción. In: El cafetal del futuro. Mexico.

- Ricketts, T.H.**, B. Soares-Filho, G. A. B. da Fonseca, D. Nepstad, A. Pfaff, A. Peterson, A. Anderson, D. Boucher, A. Cattaneo, M. Conte, K. Creighton, L. Linden, C. Maretti, P. Moutinho, R. Ullman, R. Victurine (2010). Indigenous lands, Protected areas, and slowing climate change. *PLoS Biology* 8:3 e10000331
- Lonsdorf, E., Kremen, C., **Ricketts, T.H.**, Winfree, R., Williams, N. and Greenleaf, S. (2009). Modeling pollination services across agricultural landscapes. *Annals of Botany* 103(9): 1-12.
- Daily, G.C., S. Polasky, J. Goldstein, P. M. Kareiva, H.A. Mooney, L. Pejchar, **T.H. Ricketts**, J. Salzman, R. Shallenberger (2009). Ecosystem services in decision-making: Time to deliver. *Frontiers in Ecology and Environment* 7(1):21-28.
- Nelson, Erik, G. Mendoza, J. Regetz, S. Polasky, H. Tallis, D.R. Cameron, K.M.A. Chan, G.C. Daily, J. Goldstein, P. Kareiva, E. Lonsdorf, R. Naidoo, **T.H. Ricketts**, M.R. Shaw (2009). Modeling multiple ecosystem services, biodiversity, conservation, commodity production, and tradeoffs at landscape scales. *Frontiers in Ecology and Environment* 7(1): 4-11.
- Mwakalila, S., Burgess, N. D., **Ricketts, T.H.**, Olwero, N. , Swetnam, R., Mbilinyi, B., Marchant, R., Mtaló, F., White, S., Munishi, P., Marshall, A., Malimbwi, R., Smith, C., Jambiya, G., Madoffe, S., Fisher, B., Kajembe, G., Morse-Jones, S., Kulindwa, K., Green, J., Balmford, A. (2009). Linking Science with Stakeholders to Sustain Natural Capital. *The Arc Journal* 23: 22-27
- Allnutt, T.F., S. Ferrier, G. Manion, G. V. N. Powell, **T.H. Ricketts**, B.L. Fisher, G.J. Harper, C. Kremen, J. Labat, D.C. Lees, T.A. Pearce, M.E. Irwin, F. Rakotondrainibe. (2008). Quantifying biodiversity loss in Madagascar from a 50-year record of deforestation. *Conservation Letters* 1:173-181.
- Naidoo, R., A. Balmford, R. Costanza, B. Fisher, R.E. Green, B. Lehner, T.R. Malcolm, **T.H. Ricketts** (2008). Global mapping of ecosystem services and conservation priorities. *Proceedings of the National Academy of Sciences – US*. 105: 9495-9500.
- Loucks, C., **T.H. Ricketts**, R. Naidoo, J. Lamoreux, J. Hoekstra (2008). Explaining the global pattern of protected area coverage: relative importance of vertebrate biodiversity, human activities and agricultural suitability. *J. Biogeography*. 35:1337-1348.
- Ricketts, T.H.**, J. Regetz, I. Steffan-Dewenter, S. A. Cunningham, C. Kremen, B. Gemmill, S. S. Greenleaf, A. M. Klein, M. M. Mayfield, L. A. Morandin, A. Ochieng', R. Winfree. (2007). Landscape effects on crop pollination services: Are there general patterns?. *Ecology Letters* 11:499-515.
- Grand, J., M. P. Cummings, T. G. Rebelo, **T. H. Ricketts**, and M. C. Neel. 2007. Biased data reduce efficiency and effectiveness of conservation reserve networks. *Ecology Letters* 10:364-374.
- Armsworth, P.R., K.M.A. Chan, G.C. Daily, P.R. Ehrlich, C. Kremen, **T.H. Ricketts**, M.A. Sanjayan (2007). Ecosystem service science and the way forward for conservation. *Conservation Biology* 21: 1383-1384.
- Zhang, W., **T.H. Ricketts**, C. Kremen, K.M. Carney, S.M. Swinton (2007). Ecosystem services and dis-services to agriculture. *Ecological Economics* 64: 253-260.
- Hess, G., R.A. Bartel, A. Leidner, K.M. Rosenfeld, M.J. Rubino, S. Snider, **T.H. Ricketts** (2007). Effectiveness of biodiversity indicators varies with extent, grain, and region. *Biological Conservation* 132:448-457.
- Lamoreux, J.F., J.C. Morrison, **T.H. Ricketts**, D.M. Olson, E. Dinerstein, M.W. McKnight, H. H. Shugart (2007). The multifaceted nature of biodiversity conservation: Reply to Leroux and Schiegelow. *Conservation Biology*. 21: 269-270.
- Kremen, C., N. Williams, M.A. Aizen, B. Gemmill-Herren, G. LeBuhn, R. Minckley, L. Packer, S. Potts, T. Roulston, I. Steffan-Dewenter, D. Vazquez, R. Winfree, L. Adams, E. Crone, S. Greenleaf, T. Keitt, A.M. Klein, J. Regetz, **T.H. Ricketts** (2007). Pollination and other ecosystem services produced by mobile organisms: a conceptual framework for the effects of land use change. *Ecology Letters*. 10:299-314.

- Naidoo, R., A. Balmford, P. J. Ferraro, S. Polasky, **T. H. Ricketts**, M. Rouget (2006). Integrating economic costs into conservation planning. *Trends in Ecology and Evolution* 21(12): 681-687.
- Naidoo, R. and **T.H. Ricketts** (2006). Mapping economic costs and benefits of conservation. *PLoS Biology* 4(11):e360.
- Lamoreux, J.F., J.C. Morrison, **T.H. Ricketts**, D.M. Olson, E. Dinerstein, M.W. McKnight, H. H. Shugart (2006). Global tests of biodiversity concordance and the importance of endemism. *Nature* 440:212-213.
- Burgess, N., J. D'Amico Hales, **T.H. Ricketts**, E. Dinerstein. 2006. Factoring species, non-species values and threats into biodiversity prioritisation across the ecoregions of Africa and its islands. *Biological Conservation* 127:383-401.
- Ricketts, T.H.**, N. Williams, and M. Mayfield (2006). Connectivity and ecosystem services: crop pollination in fragmented landscapes. In Crooks, K. and M. Sanjayan, editors. *Connectivity Conservation*. Cambridge University Press, Cambridge, UK.
- Ricketts, T.H.**, E. Dinerstein, T. Boucher, T.M. Brooks, S.M. Butchart, M. Hoffman, J.F. Lamoreux, J. Morrison, M. Parr, J.D. Pilgrim, A.S.L. Rodrigues, W. Sechrest, G.E. Wallace, K. Berlin, J. Bielby, N.D. Burgess, D.R. Church, N. Cox, D. Knox, C. Loucks, G.W. Luck, L.L. Master, R. Moore, R. Naidoo, R. Ridgely, G.E. Schatz, G. Shire, H. Strand, W. Wettengel, E. Wikramanayake (2005). Pinpointing and preventing imminent extinctions. *Proceedings of the National Academy of Sciences – US* 102:18497-18501.
- Kier, G., J. Mutke, E. Dinerstein, **T.H. Ricketts**, W. Küper, H. Kreft, W. Barthlott. (2005) Global patterns of plant diversity. *Journal of Biogeography* 32:1107-1116.
- Loh, J., R.E. Green, **T.H. Ricketts**, J. Lamoreux, M. Jenkins, V. Kapos, and J. Randers (2005). The Living Planet Index: Using species population time series to track trends in biodiversity. *Philosophical Transactions of the Royal Society of London, Series B* 360:289-295
- Hoekstra, J.M., T.M. Boucher, **T.H. Ricketts**, and C. Roberts (2005). Confronting a biome crisis: Global disparities of habitat loss and protection. *Ecology Letters* 8:23-29.
- Balmford, A, L. Bennun, B. ten Brink, D. Cooper, I.M. Côté, P. Crane, A. Dobson, N. Dudley, I. Dutton, R.E. Green, R.D. Gregory, R. Harrison, E.T. Kennedy, C. Kremen, N. Leader-Williams, T.E. Lovejoy, G. Mace, R. May, P. Mayaux, P. Morling, J. Phillips, K. Redford, **T.H. Ricketts**, J.P. Rodríguez, M. Sanjayan, P.J. Schei, A.S. van Jaarsveld, B.A. Walther (2005). The Convention on Biological Diversity's 2010 Target. *Science* 307:212-213.
- Defries, R., et al. 2005. Analytical approaches for assessing ecosystem condition and human well-being. in N. J. Ash, R. Hassan, and R. Scholes, eds. *Millennium Ecosystem Assessment. Ecosystems and human well-being, vol. 1: Current state and trends*. Island Press, Washington, DC.
- Mace, G.M., et al. 2005. Biodiversity. in N. J. Ash, R. Hassan, and R. Scholes, eds. *Millennium Ecosystem Assessment. Ecosystems and human well-being, vol. 1: Current state and trends*. Island Press, Washington, DC.
- Ricketts, T.H.**, G.C. Daily, P.R. Ehrlich, and C. Michener (2004). Economic value of tropical forest to coffee production. *Proceedings of the National Academy of Sciences – US*. 101(34):12579-12582.
- Ricketts, T.H.** (2004). Tropical forest fragments enhance pollinator activity in nearby coffee crops. *Conservation Biology* 18(5):1262-1271.
- Imhoff, M.L., L. Bounoua, **T.H. Ricketts**, C. Loucks, R. Harriss, W. T. Lawrence (2004) Global patterns in human consumption of net primary production. *Nature* 429:870-873.
- Luck, G.W., **T.H. Ricketts**, G.C. Daily, M. Imhoff (2004). Alleviating spatial conflict between people and biodiversity. *Proceedings of the National Academy of Sciences – US*. 101(1):182-186.

- Imhoff, M.L., L. Bounoua, R. DeFries, W. T. Lawrence, D. Stutzer, C. J. Tucker, and **T.H. Ricketts**. 2004. The consequences of urban land transformation on net primary productivity in the United States. *Remote Sensing of Environment* 89(4): 434-443.
- Higgins, J.V., **T.H. Ricketts**, J.D. Parrish, E. Dinerstein, G. Powell, S. Palminteri, J.M. Hoekstra, J. Morrison, A. Tomasek, J. Adams. 2004. Beyond Noah: Saving species is not enough. *Conservation Biology* 18(6):1672-1673.
- Ricketts, T.H.** and M. Imhoff. 2003. Biodiversity, urban areas, and agriculture: locating priority ecoregions for conservation. *Conservation Ecology* 8(2): 1. [online] URL: <http://www.consecol.org/vol8/iss2/art1>
- Rosenzweig, M.L., W. Turner, J.G. Cox, and **T.H. Ricketts**. 2003. Estimating diversity in unsampled habitats of a biogeographical province. *Conservation Biology* 17(3):864-874.
- Ricketts, T.H.**, G.C. Daily, and P.R. Ehrlich. 2002. Does butterfly diversity predict moth diversity? Testing a popular indicator taxon at local scales. *Biological Conservation* 103(3):361-370.
- Ricketts, T.H.** 2001. The matrix matters: effective isolation in fragmented landscapes. *American Naturalist* 158(1):87-99.
- Ricketts, T.H.**, G.C. Daily, P.R. Ehrlich, and J.P. Fay. 2001. Countryside biogeography of moths in a fragmented landscape: biodiversity in native and agricultural habitats. *Conservation Biology* 15(2):378-388.
- Balvanera, P., G.C. Daily, P.R. Ehrlich, **T.H. Ricketts**, S.A. Bailey, S.Kark, C. Kremen, and H. Pereira. 2001. Conserving biodiversity and ecosystem services. *Science* 291(5511):2047.
- Hughes, J.B., J.J. Hellmann, **T.H. Ricketts**, and B.J. Bohannan. 2001. Counting the uncountable: Statistical approaches to estimating microbial diversity. *Applied and Environmental Microbiology* 67(10):4399-4406.
- Ricketts, T.H.** 2001. Aligning conservation goals: are patterns of species richness and endemism concordant at regional scales? *Animal Biodiversity and Conservation* 24(1):91-99
- Olson, D.M., E. Dinerstein, E.D. Wikramanayake, N.D. Burgess, G.V.N. Powell, E.C. Underwood, J.A. D'Amico, I. Itoua, H.E. Strand, J.C. Morrison, C.J. Loucks, T.F. Allnutt, **T.H. Ricketts**, Y. Kura, J.F. Lamoreux, W.W. Wettengel, P. Hedao, and K.R. Kassem. 2001. Terrestrial ecoregions of the world: New map of life on earth. *Bioscience* 51(11):933-938.
- Heal, G. G.C. Daily, P.R. Ehrlich, J. Salzman, C. Boggs, J.J. Hellmann, J.B. Hughes, C. Kremen, **T.H. Ricketts**. 2001. Protecting natural capital through ecosystem service districts. *Stanford Environmental Law Journal* 20(2):333-364.
- Ricketts, T.H.** 2001. Conservation biology and biodiversity. *Encyclopedia of Life Sciences*. MacMillan Reference Ltd, London. Also available at <http://www.els.net>.
- Kremen, C. and **T.H. Ricketts**. 2000. Global perspectives on pollination disruptions. *Conservation Biology* 14(5):1226-1228.
- Ricketts, T.H.**, E. Dinerstein, D.M. Olson, C. Loucks. 1999. Who's where in North America? Patterns of species richness and the utility of indicator taxa for conservation. *Bioscience* 49(5):369-381.
- Fleishman, E., G.H. Wolff, C.L. Boggs, P.R. Ehrlich, A.E. Launer, J.O. Niles and **T.H. Ricketts**. 1999. Conservation in practice: overcoming obstacles to implementation. *Conservation Biology* 13:450-452

### **Other Publications**

- WWF (2010). Living Planet Report. Contributing author, ecosystem services sections.
- Ricketts, T.H.** (2010). Why ecoregions? In Hoekstra et al. eds. *The Atlas of Global Conservation*. University of California Press. Pp. 6-7.
- Burgess, N., Mwakalila, S., Madoffe, S., **Ricketts, T.H.**, Olwero, N., Swetnam, R., Mbilinyi, B., Marchant, R., Mtalo, F., White, S., Munishi, P., Marshall, A., Malimbwi, R., Jambiya, G.,

- Fisher, B., Kajembe, G., Morse-Jones, S., Kulindwa, K., Green, J., and A. Balmford (2009). Valuing the Arc – A Programme to Map and Value Ecosystem Services in Tanzania. *Mountain Research Initiative Newsletter* 18(3):18-21.
- Burgess, N.D., **T. H. Ricketts**, A. Balmford and R. Wild. 2004. The 5th World Parks Congress. *Oryx* 38: 1-2.
- Flather, C.H.; **Ricketts, T.H.**; Sieg, C.H.; Knowles, M.S.; Fay, J.P.; McNees, J. 2003. Criterion 1: conservation of biological diversity. Indicator 6: the number of forest-dependent species. In: Darr, D., compiler. *Technical document supporting the 2003 national report on sustainable forests*. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Flather, C.H.; **Ricketts, T.H.**; Sieg, C.H.; Knowles, M.S.; Fay, J.P.; McNees, J.. 2003. Criterion 1: Conservation of biological diversity. Indicator 7: The status (threatened, rare, vulnerable, endangered, or extinct) of forest-dependent species at risk of not maintaining viable breeding populations, as determined by legislation or scientific assessment. In: Darr, D., compiler. *Technical document supporting the 2003 national report on sustainable forests*. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Fleishman, E., C.L. Boggs, M.C. Devine, S. Kark, and **T.H. Ricketts**. (2001). Status of the union. Review of Mac, M.J., P.A. Opler, C.E. Puckett Haecker, and P.D. Doran, editors. 1998. Status and Trends of the Nation's Biological Resources. U.S.G.S., Reston, Virginia. *Conservation Biology* 14(6):1926-1927.
- Dinerstein, E., G. Powell, D.M. Olson, E. Wikramanayake, R. Abell, C. Loucks, E. Underwood, T. Allnutt, W. Wettengel, **T.H. Ricketts**, H. Strand, S. O'Connor, and N. Burgess. 2001. *A workbook for conducting biological assessments and developing biodiversity visions for ecoregion-based conservation*. World Wildlife Fund, Washington, DC.
- Ricketts, T.H.** 1999. Managing water more wisely. Review of P.H. Gleik. 1998. The World's Water. *Bioscience* 49(10):831-832.
- Hellmann, J.J., J.B. Hughes, and **T.H. Ricketts**. 1998. Review of J.L. Simon, editor. 1995. The State of Humanity. *Ecofables/Ecoscience* 1:11-17.
- Ricketts, T.H.**, E.S. Bryant, R.W. Birnie, K.D. Kimball. 1992. Landsat TM mapping of alpine vegetation to monitor global climate change. *Proceedings of the American Society for Photogrammetry and Remote Sensing/ ACSM/RT 92 Convention*. Washington, D.C., USA. August 3-7, 1992. IV:86-97.

## GRANTS

Google, Inc. Natural Capital Project \$2million, PI	2010-2012
Moore Foundation Developing ecosystem service science, software and policy change for land use planning. \$2.36 million total, none to WWF Science, co-developed proposal	2010-2013
Moore Foundation Marine InVEST: Development and application of ecosystem service models to inform marine ecosystem-based management \$1.97 million total, \$80,000 to WWF Science, co-developed proposal	2008-2010
Wilberforce Foundation Natural Capital Project \$2,750, PI	2010
Various private individuals Specific projects and general science program support Total of over \$335,000, PI	2009-2011
Norwegian Agency for Development Cooperation	2009-2011

Tools for Carbon Mapping and Monitoring, \$3 million total, \$335,000 for WWF Science, Co-wrote WWF proposal	2007-2009
Packard Foundation	
Putting ecosystem services to work in Eastern Arc Mountains, Tanzania, \$400,000, PI	
NASA	2005
Measuring Wild Nature for 2010 targets – Royal Society Workshop \$10,000, PI	
U.S. Forest Service	2001-2002
Regional and local species diversity of birds in North America \$10,000, PI	
NASA Earth Science Land Cover Land Use Change Program	2000-2004
Measuring human impacts on the biodiversity and carrying capacity of ecosystems \$182,000 for WWF Science, PI Marc Imhoff, NASA	
Summit Foundation	2000-2002
Coffee pollination in a tropical fragmented landscape: conservation of an important ecosystem service \$200,000, PI	
NASA Earth Observing System Interdisciplinary Science Program	1999-2000
Urbanization, land use, and biological resources \$10,000 to support graduate project, PI Marc Imhoff, NASA	

## HONORS (SELECTED)

Boething Lecture, Stanford University	2010
Rothenburg Lecture: Biology in Public Policy, Bryn Mawr College	2008
Zayed Prize for Scientific Achievement in Environment (shared with all authors of Millennium Ecosystem Assessment)	2005
Teresa Heinz Scholarship for Environmental Research	1999-2000
National Science Foundation Graduate Research Fellowship	1996-1999
NASA Space Grant Undergraduate Fellow	1991
Upham Prize for most outstanding research in Earth Sciences (Dartmouth College)	1991

## PROFESSIONAL ACTIVITIES

### *Scientific Panels and Committees*

Science Advisory Board, NCEAS (Chair 2010-2011)	2008-present
National Research Council, Committee on Status of Pollinators	2005-2006
Millennium Ecosystem Assessment, Coordinating Lead Author	2000-2005

### *Editorial service*

Associate Editor, <i>Frontiers in Ecology and Evolution</i>	2005-present
Faculty member, Faculty of 1000 Biology	2004-2008
Editorial Board, <i>Animal Biodiversity and Conservation</i>	2002-present

### *Professional associations*

American Association for the Advancement of Science	2004-present
Ecological Society of America	1997-present
Society for Conservation Biology	1997-present
Rocky Mountain Biological Laboratory	1998-2002

*Teaching and mentoring*

Member of Doctoral Committee for Christina Kennedy, U. Maryland	2004-2010
Co-sponsored NSF Post-doctoral researcher Joanna Grand, U. Maryland	2005-2008
Co-taught 2 graduate seminars with George Hess at North Carolina State	2004, 2010
Guest lectures: Princeton University, U. Maryland, North Carolina State, etc.	2003-2010
Wessells Award for outstanding performance in teaching (Stanford University)	1998

*Invited seminars and other presentations (selected)*

Miller Institute Symposium, UC Berkeley, invited speaker	2011
University of North Carolina, student-invited speaker	2011
North Carolina State, Department of Forestry	2010
Stanford University, Annual Boething Lecture	2010
Dartmouth College, Department of Biology	2010
Princeton University, Woodrow Wilson School of Public and International Affairs	2009
Duke University, Ecology Program	2009
AIBS Annual Meeting – plenary talk	2009
Global Environment Facility (GEF) Secretariat, Natural Resources Seminar Series	2008
University of Colorado, Boulder, Dept. of Ecology & Evolutionary Biology	2008
USDA CREES, Ecosystem Services Seminar series	2007
US Forest Service, Ecosystem Services seminar series	2007
US EPA, Office of Research and Development	2007
Aldo Leopold Leadership Program	2006
University of North Carolina, Curriculum in Ecology	2006
Google	2005
USAID, Biodiversity Program	2005
University of Tennessee, Department of Ecology and Evolutionary Biology	2005
DIVERSITAS Open Science Conference	2005
Duke University, Nicholas School of Environment	2004
International Leadership Institute for Environmental Education, Orlando, FL	2004
Congresso Mexicano de Botánica, Oaxaco, Mexico	2004
Cambridge University, Department of Zoology	2004
Brown University, Department of Ecology and Evolutionary Biology	2003
World Parks Congress, Durban, South Africa	2003
University of Maryland, Behavior, Ecology, Evolution, and Systematics Program	2003
Humboldt State University, Department of Biology	2002
Utah State University, School of Natural Resources	2002
Victoria University, Wellington, New Zealand, School of Biological Sciences	2001
University of Arizona, Department of Ecology and Evolutionary Biology	2001
University of California at Santa Cruz, Department of Environmental Studies	2001

*(updated November 2010)*