Curriculum Vitae
PETER KAREIVA
CEO Aquarium of Pacific
Adjunct Professor, UCLA IoES

EDUCATION

1973	Duke University, Durham, NC	B.A. in Zoology
1976	University of California at Irvine, CA	M.S. in Environmental Biology
1981	Cornell University, Ithaca, NY	Ph.D. in Ecology and Evolutionary Biology

PROFESSIONAL APPOINTMENTS

1975-1976	Lecturer, California State University at Los Angeles
1981-1983	Assistant Professor, Brown University (Biology and Applied Mathematics)
1984-1986	Assistant Professor, University of Washington (Zoology)
1986-1989	Associate Professor, University of Washington (Zoology)
1989-1999	Professor, University of Washington (Zoology)
1989-1990	Visiting Professor Uppsala University
1999-2001	Leader of Cumulative Risk Initiative, National Marine Fisheries Service, NWFSC
2001-2002	Director of the Division for Conservation Biology, National Marine Fisheries Service
2002-2006	Lead Scientist, The Nature Conservancy
2003-2004	Visiting Professor, UCSB, Bren School (then adjunct)
2005 – 2015	Visiting Professor, Santa Clara University (Environmental Studies)
2007-2015	Vice President (of Science) for The Nature Conservancy
2012-2013	Visiting Professor Stanford University (Biology)
2015 – 2019	Director of Institute of the Environment & Sustainability, UCLA
2020 -	Adjunct Professor, Institute of the Environment & Sustainability, UCLA
2020 -	CEO and President, Aquarium of Pacific, Long Beach, CA

HONORS & AWARDS

1984	Visiting Fellow, Oxford University Institute of Mathematics, Centre for Mathematical Biology
1989-1990	Guggenheim Fellowship
2007	elected to the American Academy of Arts and Sciences
2011	elected to the National Academy of Sciences
2017	Ocean Conservation Award, Aquarium of the Pacific
2017	Environmental Hero Award, Groundwork
2018	Highly Cited Researcher (top 1%, Clarivate Analytics)
2019	Julian Simon Fellow

2018-2019 Wurtele Visitor: Carleton College

PUBLICATIONS

Academic Journal Articles:

Kareiva, P. 1982. Exclusion experiments and the competitive release of insects feeding on collards. *Ecology* 63: 696-704.

Kareiva, P. 1982. Mathematics made easy? *Ecology* 63:592-593.

Kareiva, P. 1982. Experimental and mathematical analyses of herbivore movement: Quantifying the influence of plant spacing and quality on foraging discrimination. *Ecological Monographs* 52: 261-282.

Kareiva, P. and N. Shigesada. 1983. Analyzing insect movement as a correlated random walk. *Oecologia* 56: 234-238.

Kareiva, P. 1983. Local movement in herbivorous insects: Applying a passive diffusion model to mark-recapture field experiments. *Oecologia* 57: 322-327.

Banks, H. T. and P. Kareiva. 1983. Parameter estimation techniques for transport equations with application to population dispersal and tissue bulk flow models. *Journal of Mathematical Biology* 17: 253-273.

Kareiva, P. 1984. Predator-prey dynamics in spatially structured populations: Manipulating dispersal in a coccinellid-aphid interaction. *Lecture Notes in Biomathematics* 54: 368-389.

Root, R. and P. Kareiva. 1984. The search for resources by cabbage butterflies (*Pieris rapae*): Ecological consequences and adaptive significance of Markovian movements in a patchy environment. *Ecology* 65: 147-165.

Cappuccino, N. and P. Kareiva. 1985. Coping with a capricious environment: a population study of a rare pierid butterfly. *Ecology* 66: 152-161.

Feeny, P., W. Blau, and P. Kareiva. 1985. Larval growth and survivorship of the black swallowtail butterfly in central New York. *Ecological Monographs* 55: 167-187.

Cain, M., J. Eccleston, and P. Kareiva. 1985. The influence of food plant dispersion on caterpillar searching success. *Ecological Entomology* 10: 1-7.

Kareiva, P. 1985. Finding and losing host plants by *Phyllotreta*: patch size and surrounding habitat. *Ecology* 66: 1809-1816.

Banks, H. T., P. L. Daniel, and P. Kareiva. 1985. Estimation techniques for transport equations. *Lecture Notes in Biomathematics* 57: 428-438.

Banks, H. T., P. Kareiva, and P. Lamm. 1985. Modeling insect dispersal and estimating parameters when mark-release techniques may cause initial disturbance. *Journal of Mathematical Biology* 22: 259-277.

Root, R. B. and P. Kareiva. 1986. Is risk-spreading so unrealistic? *Oikos* 47: 114-116.

Kareiva, P. 1987. The ecology of invasions: Theory or anecdotes? *Ecology* 68:1556.

Bergelson, J. and P. Kareiva. 1987. Barriers to movement and the response of herbivores to alternative cropping patterns. *Oecologia* 71: 457-460.

Kareiva, P. and G. Odell. 1987. Swarms of predators exhibit "preytaxis" if individual predators use area-restricted search. *American Naturalist* 130: 233-270.

Kareiva, P. 1987. Habitat fragmentation and the stability of predator-prey interactions. *Nature* 326: 388-390.

Banks, H., P. Kareiva, and K. Murphy. 1987. Parameter estimation techniques for interaction and redistribution models: A predator-prey example. *Oecologia* 74: 356-362.

Kareiva, P. and M. Andersen. 1988. Spatial aspects of species interactions: The wedding of models and experiments. *Lecture Notes in Biomathematics* 77: 35-50.

Banks, H., P. Kareiva, and L. Zia. 1988. Analyzing field studies of insect dispersal using two-dimensional transport equations. *Environmental Entomology* 17: 815-820.

Antonovics, J. and P. Kareiva. 1988. Frequency-dependent selection and competition: Empirical approaches. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 319: 601-613.

Turchin, P. and P. Kareiva. 1989. Aggregation in *Aphis varians*: An effective strategy for reducing predation risk. *Ecology* 70: 1008-1016.

Kareiva, P. and R. Perry. 1989. Leaf overlap and the ability of ladybird beetles to search among plants. *Ecological Entomology* 14: 127-129.

Kareiva, P., D. Morse, and J. Eccleston. 1989. Stochastic prey arrivals and crab spider giving-up times: Simulations of spider performance using two simple "rules of thumb." *Oecologia* 78: 542-549.
Kareiva, P. and R. Sahakian. 1990. Tritrophic effects of a simple architectural mutation in pea plants. *Nature* 345: 433-434.

Andow, D., P. Kareiva, S. Levin, and A. Okubo. 1990. Spread of invading organisms. *Landscape Ecology* 4: 177-188.

Kareiva, P., A. Mullen, and R. Southwood. 1990. Population dynamics in spatially complex environments: Theory and data. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 330: 175-190.

Kareiva, P. 1990. Stability from variability. *Nature* 344: 111-112.

Kareiva, P. 1990. The fertile wedding of ecological theory and agricultural practice. *Ecology* 71:1221.

Kareiva, P. 1991. Ecologists address brave new world of genetic engineering. *Ecology* 72:1903-1904.

Morris, W. and P. Kareiva. 1991. How insect herbivores find suitable host plants: The interplay between random and nonrandom movement. *Insect-Plant Interactions* 3: 123-146.

Kareiva, P. 1992. Much ado about patchy environments. *Ecology* 73:1935-1936.

Doak, D., P. Marino, and P. Kareiva. 1992. Spatial scale mediates the influence of habitat fragmentation on dispersal success: Implications for conservation. *Theoretical Population Biology* 41: 315-336.

Kareiva, P. 1993. Transgenic plants on trial. *Nature* 363: 580-581.

Kareiva, P. 1993. No shortcuts in new maps. *Nature* 365: 292-293.

Kareiva, P. 1993. A science with the answers, but too little influence? *Ecology* 74:1902-1903.

Groom, M. and P. Kareiva. 1993. Hope in high places for ecology and the environment. *Ecology* 74:965-966.

Lewis, M. and P. Kareiva. 1993. Allee dynamics and the spread of invading organisms. *Theoretical Population Biology* 43: 141-158.

Ives, A., P. Kareiva, and R. Perry. 1993. Response of a predator to variation in prey density at three hierarchical scales: Lady beetles feeding on aphids. *Ecology* 74: 1929-1938.

Kareiva, P. 1994. Space: The final frontier for ecological theory. *Ecology* 75: 1.

Kareiva, P. and J. Stark. 1994. Environmental risks in agricultural biotechnology. *Chemistry & Industry* 17: 52-55.

Kareiva, P. 1994. Diversity begets productivity. *Nature* 368: 686-687.

Kareiva, P. 1994. Ecological theory and endangered species. *Ecology* 75: 583.

Kareiva, P. 1994. Higher order interactions as a foil to reductionist ecology. *Ecology* 75: 1527-1528.

Kareiva, P., W. Morris, and C. Jacobi. 1994. Studying and managing the risk of cross-fertilization between transgenic crops and wild relatives. *Molecular Ecology* 3: 15-21.

Morris, W., P. Kareiva, and P. Raymer. 1994. Do barren zones and pollen traps reduce gene escape from transgenic crops? *Ecological Applications* 4: 157-165.

Doak, D., P. Kareiva, and B. Klepetka. 1994. Population viability analysis for the desert tortoise in the Western Mojave Desert. *Ecological Applications* 4: 446-460.

Kareiva, P. 1995. Predicting and producing chaos. *Nature* 375: 189-190.

Kareiva, P. and I. Parker. 1995. Developing a case study method for conservation biology. *Ecology* 76:1023-1024.

Kareiva, P. and U. Wennergren. 1995. Connecting landscape patterns to ecosystem and population processes. *Nature* 373: 299-302.

Ruesink, J., I. Parker, M. Groom, and P. Kareiva. 1995. Reducing the risks of non-indigenous species interactions. *Bioscience* 45: 465-477.

Wennergren, U., M. Ruckelshaus, and P. Kareiva. 1995. The promise and limitations of spatial

models in conservation biology. *Oikos* 74: 349-356.

Nevitt, G., R. Veit, and P. Kareiva. 1995. Dimethyl sulphide as a foraging cue for Antarctic Procellariiform seabirds. *Nature* 376: 680-682.

Kareiva, P. 1996. Diversity and sustainability on the prairie. *Nature* 379: 673-674.

Kareiva, P. 1996. Developing a predictive ecology for non-indigenous species and ecological invasions. *Ecology* 77: 1651-1652.

Kareiva, P. 1996. Contributions of ecology to biological control. *Ecology* 77: 1963-1964.

Cruywagen, G., P. Kareiva, M. Lewis, and J. Murray. 1996. Competition in a spatially heterogeneous environment: Modeling the risk of spread of a genetically engineered population. *Theoretical Population Biology* 49: 1-38.

Lewis, M., G. Schmitz, P. Kareiva, and J. Trevors. 1996. Models to examine containment and spread of genetically engineered microbes. *Molecular Ecology* 5: 165-175.

Pascual, M. and P. Kareiva. 1996. Predicting the outcome of competition using experimental data: Maximum likelihood and Bayesian approaches. *Ecology* 77: 337-349.

Secord, D. and P. Kareiva. 1996. Perils and pitfalls in the host specificity paradigm. *BioScience* 46: 448-453.

Kareiva, P., I. Parker, and M. Pascual. 1996. Can we use experiments and models in predicting the invasiveness of genetically engineered organisms? *Ecology* 77: 1670-1675.

Parker, I. and P. Kareiva. 1996. Assessing the risks of genetically engineered organisms: Acceptable evidence and reasonable doubt. *Biological Conservation* 78: 193-203.

Kareiva, P. and J. Bergelson. 1997. The nuances of variability: Beyond mean square error and platitudes about fluctuating environments. *Ecology* 78*:* 1299-1300

Kareiva, P and M. Bertness. 1997. Re-examining the role of positive interactions in communities. *Ecology* 78: 1945.

Kareiva, P. 1997. Conquering new territory in the theory of biological invasions. *Trends in Ecology and Evolution* 12:413-414.

Pascual, M., P. Kareiva, and R. Hilborn. 1997. The influence of model structure on conclusions about the variability and harvesting of Serengeti wildebeest. *Conservation Biology* 11: 966 -976

Fagan, W. and P. Kareiva. 1997. Using compiled species lists to make biodiversity comparisons among regions: A test case using Oregon butterflies. *Biological Conservation* 80: 249-259.

Ruckelshaus, M., C. Hartway, and P. Kareiva. 1997. Assessing the data requirements of spatially explicit dispersal models. *Conservation Biology* 11: 1298-1306.

Shea, K. and the NCEAS Working Group on Population Management (including Kareiva). 1998. Management of populations in conservation, harvesting, and control. *Trends in Ecology and Evolution* 13: 371-375.

Kareiva, P. 1999. Coevolutionary arms races: Is victory possible? *PNAS* 96: 8-10.

Gerber, L., D. DeMaster, and P. Kareiva. 1999. Gray whales and the value of monitoring in implementing the US Endangered Species Act. *Conservation Biology* 13: 1215-1219.

Ruckelshaus, M., C. Hartway, and P. Kareiva. 1999. Dispersal and landscape errors in spatially explicit population models: A reply. *Conservation Biology* 13: 1223-1224.

Parker, I.M., D. Simberloff, W.M. Lonsdale, K. Goodell, M. Wonham, P.M. Kareiva, M.H. Williamson, B. Von Holle, P.B. Moyle, J.E. Byers and L. Goldwasser. 1999. Impact: Toward a framework for understanding the ecological effects of invaders. *Biological Invasions* 1: 3-19.

Kareiva, P., M. Marvier, and M. McClure. 2000. Recovery and management options for Snake River spring/summer chinook salmon in the Columbia River Basin. *Science* 290: 977-979.

Kareiva, P. 1999. Where is the biology in conservation biology? *American Zoologist* 39:92A.

Kareiva, P. 2000. Is ecology irrelevant? *Trends in Ecology and Evolution* 15:520-521.

Kareiva, P., P. S. Levin, M. M. McClure. 2000. Many plans, one bottom line: Save endangered salmon. *Science* 289: 2281-2283.

Boersma, P. D., P. Kareiva, W. F. Fagan, J. A. Clark, and J. M. Hoekstra. 2001. How good are species recovery plans? *Bioscience* 51: 643-649.

Fagan, W., E. Meir, J. Prendergast, A. Folarin, and P. Kareiva. 2001. Characterizing population vulnerability for 758 species. *Ecology Letters* 4: 132-138.

Kareiva, P. 2001. Making a big difference. *Conservation Biology* 15: 1472–1473.

Kareiva, P., M. Marvier, and M. McClure. 2001. Dam breaching and chinook salmon recovery: Response. *Science* 291: 939a.

Ruckelshaus, M. H., P. Levin, J. B. Johnson, and P. M. Kareiva. 2002. The Pacific salmon wars: What science brings to the challenge of recovering species. *Annual Review of Ecology and Systematics* 33: 665-706.

Gerber, L., P. Kareiva, and J. Bascompte. 2002. The interplay of life history attributes and fishing pressure in evaluating the efficacy of marine reserves. *Biological Conservation* 106: 11-18

Kareiva, P. 2002. Applying ecological science to recovery planning. *Ecological Applications* 12: 629.

Kareiva, P., M. Marvier, S. West, and J. Hornisher. 2002. Slow-moving journals hinder conservation. *Nature* 420: 15.

Clark, J. A., J. M. Hoekstra, P. D. Boersma, and P. Kareiva. 2002. Improving US Endangered Species Act recovery plans: Key findings and recommendations of the SCB recovery plan project. *Conservation Biology* 16: 1510-1519.

Kareiva, P. 2002. When one whale matters. *Nature* 414: 493-494.

Kareiva, P. 2002. Applying ecological science to recovery planning. *Ecological Applications* 12:629.
Kareiva, P. and M. Marvier. 2003. Conserving biodiversity coldspots. *American Scientist* 91: 344-

351.

Kareiva, P. 2003. Marine reserves: The best option for our oceans? *Frontiers in Ecology and the Environment* 1: 501-502.

O'Connor, C., M. Marvier, and P. Kareiva. 2003. Biological versus social, economic and political priority-setting in conservation. *Ecology Letters* 6: 706-711.

Sabo, J., E. Holmes, and P. Kareiva. 2004. The efficacy of simple viability models in ecological risk assessment: Does density dependence matter? *Ecology* 85: 328-341.

Marvier, M.A., P. Kareiva, and M.G. Neubert. 2004. Habitat destruction, fragmentation, and disturbance promote invasion by habitat generalists in a multispecies metapopulation. *Risk Analysis* 24: 869-879.

Molnar, J., M. Marvier, and P. Kareiva. 2004. The sum is greater than the parts - a response to Brooks et al. *Conservation Biology* 18: 1670-1671.

Kareiva, P. 2004. Ecology: Compensating for extinction. *Current Biology* 14: R627-R628.

Kareiva, P. 2005. Tired of priorities? *Conservation in Practice* 6: 45-46.

Kareiva, P. 2005. Is the key to conservation changing ethical values or policing unethical behavior? *Current Biology* 15:R40-R42.

Tallis, H. M. and P. Kareiva. 2005. Ecosystem services. *Current Biology* 15: R746-758.

Tear, T. H., P. Kareiva, P. L. Angermeier , P. Comer, B. Czech, R. Kautz, L. Landon, D. Mehlman, K. Murphy, M. Ruckelshaus, J. M. Scott, and G. Wilhere. 2005. How much is enough? The recurrent problem of setting measurable objectives in conservation. *Bioscience* 55: 835-849.

Yuan-Farrell, C., M. Marvier, D. Press and P. Kareiva. 2005. Conservation easements as a conservation strategy: Is there a sense to the spatial distribution of easements? *Natural Areas Journal* 25: 282-289.

Harvey, C. and P. Kareiva. 2005. Community context and the influence of non-indigenous species on juvenile salmon survival in a Columbia River reservoir. *Biological Invasions* 7: 651-663.

Marvier, M., J. Grant, and P. Kareiva. 2006. Nature: poorest may see it as their economic rival. *Nature* 443: 749-750.

Kareiva, P. 2006. Conservation biology: beyond marine protected areas. *Current Biology* 16: R533-R535.

Inouye, B. D., N. Underwood, D. F. Doak, and P. Kareiva. 2006. Interviewing for academic jobs. *Bulletin of the Ecological Society of America* 87:155-158.

Doak, P., P. Karevia, and J. Kingsolver. 2006. Fitness consequences of choosy oviposition for a time-limited butterfly. *Ecology* 87:395-408

Armsworth, P., G. Daily, P. Kareiva and J. Sanchirico. 2006. Land market feedbacks can undermine biodiversity conservation. *PNAS* 103: 5403-5408.

Lawler J. J., J. E. Aukema, J. Grant, B. Halpern, P. Kareiva, C. R. Nelson, K. Ohleth, J. D. Olden, M. A. Schlaepfer, B. Silliman, and P. Zaradic. 2006. Conservation science: a 20-year report card. *Frontiers in Ecology and the Environment* 4: 473-480

Tallis, H. and P. Kareiva. 2006. Shaping global environmental decisions using socio-ecological models. *Trends in Ecology and Evolution* 21: 562-568.

Kareiva, P., S. Watts, R. McDonald, and T. Boucher. 2007. Domesticated nature: shaping landscapes and ecosystems for human welfare. *Science* 316: 1866-1869.

Marvier, M., C. McCreedy, J. Regetz, and P. Kareiva. 2007. A meta-analysis of effects of Bt cotton and maize on nontarget invertebrates. *Science* 316: 1475-1477.

Murdoch, W., Polasky, S., Wilson, K., Possingham, H., Kareiva, P. and R. Shaw. 2007. Maximizing return on investment in conservation. *Biological Conservation* 139: 375-388.

Kareiva, P. and M. Marvier. 2007. Conservation for the people. *Scientific American* 297(4): 50-57.

Kiesecker J., T. Comendant, T. Grandmason, E. Gray, C. Hall, R. Hilsenbeck, P. Kareiva, L. Lozier, P. Naehu, A. Rissman, R. Shaw, and M. Zankel. 2007. Conservation easements in context: A quantitative analysis of their use by The Nature Conservancy. *Frontiers in Ecology and the Environment* 5: 125-130.

Rissman A., L. Lozier, T. Comendant, P. Kareiva, J. Kiesecker, R. Shaw, and A. Merenlender. 2007. Conservation easements: Biodiversity protection and private use. *Conservation Biology* 21: 709-718.

Wilson, K. A., E. C. Underwood, S. A. Morrison, K. R. Klausmeyer, W. W. Murdoch, B. Reyers, G. Wardell-Johnson, P. A. Marquet, P. W. Rundel, M. F. McBride, R. L. Pressey, M. Bode, J. M. Hoekstra, S. Andelman, M. Looker, C. Rondinini, P. Kareiva, M. R. Shaw, H. P. Possingham. 2007. Conserving biodiversity efficiently: What to do, where, and when. *PLoS Biology* 5: 1850-1857.

McDonald, R. I., , C. Yuan-Farrell, C. Fievet, M. Moeller, P. Kareiva, D. Foster, T. Gragson, A. Kinzig, L. Kuby, and C. Redman. 2007. Estimating the effect of protected lands on the development and conservation of their surroundings. *Conservation Biology* 21: 1526-1536.

Kilbane, C.A., and Kareiva, P. 2007. Incentives for employing conservation easements in Washington State. *Natural Areas Journal* 27: 116-117.

Kareiva, P. 2008. Ominous trends in nature recreation. *PNAS* 105:2757-2758.

Matzek, V. and P. Kareiva. 2008. Casualties of climate change: Identity and livelihood in California's Central Valley. *Places* 20(2):42-45.

Marvier, M., Y. Carrière, N. Ellstrand, P. Gepts, P. Kareiva, E. Rosi-Marshal, B. Tabashnik, L.L. Wolfenbarger. 2008. Harvesting data from genetically engineered crops. *Science* 320: 452-453.

Tallis, H., P. Kareiva, M. Marvier, and A. Chang. 2008. An ecosystem services framework to support both practical conservation and economic development. *PNAS* 105:9457-9464.

Goldman, R. L., H. Tallis, P. Kareiva and G. C. Daily. 2008. Field evidence that ecosystem service projects support biodiversity and diversify options. *PNAS* 105: 9445–9448.

Kareiva, P., A. Chang, and M. Marvier. 2008. Development and conservation goals in World Bank projects. *Science* 321:1638-1639.

McDonald, R. I., P. Kareiva, and R. T.T. Forman. 2008. The implications of current and future urbanization for global protected areas and biodiversity conservation. *Biological Conservation* 141: 1695-1703.

Underwood, E. C., M. R. Shaw, K. A. Wilson, P. Kareiva, K. R. Klausmeyer, M. F. McBride, M. Bode, S. A. Morrison, J. M. Hoekstra, and H. P. Possingham. 2008. Protecting biodiversity when money matters: Maximizing return on investment. *PLoS ONE* 3: e1515.

Ruffo, S. and P. Kareiva. 2009. Using science to assign value to nature. *Frontiers in Ecology and the Environment* 7:3.

Fox, H. E, P. Kareiva, B. Silliman, J. Hitt, D. A. Lytle, B. S. Halpern, C. V. Hawkes, J. Lawler, M. Neel, J. D. Olden, M. A. Schlaepfer, K.Smith, H. Tallis. 2009. Why do we fly? Ecologists' sins of emission. *Frontiers in Ecology and the Environment* 7:294-296.

Nelson, E., G. Mendoza, J. Regetz, S. Polasky, H. Tallis, D. R. Cameron, K. M. A. Chan, G. C. Daily, J. Goldstein, P. M. Kareiva, E. Lonsdorf, R. Naidoo, T. H. Ricketts, and M .R. Shaw. 2009. Modeling multiple ecosystem services, biodiversity conservation, commodity production, and tradeoffs at landscape scales. *Frontiers in Ecology and the Environment* 7: 4-11.

Daily, G. C., S. Polasky, J. Goldstein, P. M. Kareiva, H. A. Mooney, L. Pejchar, T. H. Ricketts, J. Salzman, and R. Shallenberger. 2009. Ecosystem services in decision making: time to deliver. *Frontiers in Ecology and the Environment* 7: 21-28.

Lawler, J. J., S. L. Shafer, D. White, P. Kareiva, E. P. Maurer, A. R. Blaustein, and P. J. Bartlein. 2009. Projected climate-induced faunal change in the Western Hemisphere. *Ecology* 90:588-597.

Sutherland, W. J., W. M. Adams, R. B. Aronson, R. Aveling, T. M. Blackburn, S. Broad, G. Ceballos, I. M. Côté, R. M. Cowling, G. A. B. DA Fonseca, E. Dinerstein, P. J. Ferraro, E. Fleishman, C. Gascon, M. Hunter Jr., J. Hutton, P. Kareiva, et al. 2009. One hundred questions of importance to the conservation of global biological diversity. *Conservation Biology* 23: 557 – 567

Fishburn, I. S., P. Kareiva, K. J. Gaston, K. L. Evans, and P. R. Armsworth. 2009. State-level variation in conservation investment by a major nongovernmental organization. *Conservation Letters* 2:74-81.

Fishburn, I. S., P. Kareiva, K. J. Gaston, and P. R. Armsworth. 2009. The growth of easements as a conservation tool. *PLoS ONE* 4: e4996.

Carpenter, S. R., E. V. Armbrust, P. W. Arzberger, F. S. Chapin III, J. J. Elser, E. J. Hackett, A. R. Ives, P. M. Kareiva, et al. 2009. Accelerate synthesis in ecology and environmental sciences. *Bioscience* 59: 699–701.

McDonald, R. I., R. T. T. Forman, P. Kareiva, R. Neugarten, D. Salzer, and J. Fisher. 2009. Urban effects, distance, and protected areas in an urbanizing world. *Landscape and Urban Planning* 93:63–75.

Zaradic, P. A., O. R. W. Pergams, and P. Kareiva. 2009. The impact of nature experience on willingness to support conservation. *PLoS ONE* 4: e7367.

Girvetz, E. H., C. Zganjar, G. T. Raber , E. P. Maurer, P. Kareiva, and J. J. Lawler. 2009. Applied climate-change analysis: The Climate Wizard tool. *PLoS ONE* 4: e8320.

West, J. M., S. H. Julius, P. Kareiva, C. Enquist, J. J. Lawler, B. Petersen, A. E. Johnson, and M. R. Shaw. 2009. US natural resources and climate change: Concepts and approaches for management adaptation. *Environmental Management* 44:1001-1021.

Kareiva, P. 2010. Conservation science: Trade-in to trade-up. *Nature* 466:322-323 doi:10.1038/466322a.

Kareiva, P. 2010. If our messages are to be heard. *Science* 327:34-35.

Lawler, J. J., T. H. Tear, C. Pyke, M. R. Shaw, P. Gonzalez, P. Kareiva, L. Hansen, L. Hannah, K. Klausmeyer, A. Aldous, C. Bienz, and S. Pearsall. 2010. Resource management in a changing and uncertain climate. *Frontiers in Ecology and the Environment* 8:35-43. doi:10.1890/070146

McDonald R. I., R. T. T. Forman, and P. Kareiva. 2010. Open space loss and land inequality in United States' cities, 1990–2000. *PLoS ONE* 5(3): e9509.

Davies, Z. G., P. Kareiva, and P. R. Armsworth. 2010. Temporal patterns in the size of conservation land transactions. *Conservation Letters* 3: 29–37.

Kareiva, P. 2011. Filling the breach: Stepping up to the Challenge of Underfunded Sustainability Science. *Bioscience* 61:845-846.

Kareiva, P., R. Lalasz, and M. Marvier. 2011. Conservation in the Anthropocene: Beyond solitude and fragility. *The Breakthrough Journal* 2:26-36.

Hoekstra, J. M., J. A. Clark, P. D. Boersma, and P. Kareiva. 2002. Response from Boersma and colleagues. *BioScience* 52: 213-214.

Kareiva, P. M. 2012. Dam choices: Analyses for multiple needs. *PNAS* 109: 5553-5554.

Kareiva, P. 2012. Environmental sciences: Divided we save. *Nature* 490: 474-475.

Blomqvist, L., B. W. Brook, E. C. Ellis, P. M. Kareiva, T. Nordhaus, and M. Shellenberger. 2013. The ecological footprint remains a misleading metric of global sustainability. *PLoS Biol* 11 e1001702.

Goldman-Benner, R. L., S. Benitez, T. Boucher, A. Calvache, G. Daily, P. Kareiva, T. Kroeger, and A. Ramos. 2012. Water funds and payments for ecosystem services: practice learns from theory and theory can learn from practice. *Oryx* 46: 55-63.

DeFries, R. S., E. C. Ellis, F. S. Chapin III, P. A. Matson, B. L. Turner II, A. Agrawal, P. J. Crutzen, C. Field, P. Gleick, P. M. Kareiva, E. Lambin, D. Liverman, E. Ostrom, P. A. Sanchez, J. Syvitski 2012. Planetary opportunities: A social contract for global change science to contribute to a sustainable future. *BioScience* 62: 603-606.

Ehrlich, P. R, P. M. Kareiva, and G. C. Daily. 2012. Securing natural capital and expanding equity to rescale civilization. *Nature* 486: 68–73.

Kareiva, P. and M. Marvier. 2012. What is conservation science? *Bioscience* 62: 962-969.

Withey, J. C., J. J. Lawler, S. Polasky, A. J. Plantinga, E. J. Nelson, P. Kareiva, C. B. Wilsey et al. 2012. Maximising return on conservation investment in the conterminous USA. *Ecology Letters* 15: 1249-1256.

Tallis, H., S. E. Lester, M. Ruckelshaus, M. Plummer, K. McLeod, A. Guerry, S. Andelman, M. R. Caldwell, M. Conte, S. Copps, D. Fox, R. Fujita, S. D. Gaines, G. Gelfenbaum, B. Gold, P. Kareiva, et al. 2012. New metrics for managing and sustaining the ocean's bounty. *Marine Policy* 36: 303-306.

Fishburn, I. S., A. G. Boyer, P. Kareiva, K. J. Gaston, and P. R. Armsworth. 2013. Changing spatial patterns of conservation investment by a major land trust. *Biological Conservation* 161: 223-229.

Arkema, K. K., G. Guannel, G. Verutes, S. A. Wood, A. Guerry, M. Ruckelshaus, P. Kareiva, M. Lacayo, and J. M. Silver. 2013. Coastal habitats shield people and property from sea-level rise and storms. *Nature Climate Change* 3: 913-918.

Game, E. T., P. Kareiva, and H. P. Possingham. 2013. Six common mistakes in conservation priority setting. *Conservation Biology* 27: 480-485.

Grimm, N. B., M. D. Staudinger, A. Staudt, S. L. Carter, F. S. Chapin III, P. Kareiva, M. Ruckelshaus, and B. A. Stein. 2013. Climate-change impacts on ecological systems: Introduction to a US assessment. *Frontiers in Ecology and the Environment* 11: 456-464.

Nelson, E. J., P. Kareiva, M. Ruckelshaus, K. Arkema, G. Geller, E. Girvetz, D. Goodrich, V. Matzek, M. Pinsky, W. Reid, M. Saunders, D. Semmens, and H. Tallis. 2013. Climate change's impact on key ecosystem services and the human well-being they support in the US. *Frontiers in Ecology and the Environment* 11: 483-893.

Blomqvist, L., B. W. Brook, E. C. Ellis, P. M. Kareiva, T. Nordhaus, and M. Shellenberger. 2013. Does the shoe fit? Real versus imagined ecological footprints. *PLoS Biology* 11: e1001700.

Ruckelshaus, M., E. McKenzie, H. Tallis, A. Guerry, G. Daily, P. Kareiva, S. Polasky, T. Ricketts, N. Bhagabati, S. A. Wood, and J. Bernhardt. 2013. Notes from the field: Lessons learned from using ecosystem service approaches to inform real-world decisions. *Ecological Economics*

Kareiva, P. and M. Marvier, M. 2013. Shared conservation goals but differing views on how to most effectively achieve results: A response from Kareiva and Marvier. *BioScience* 63: 242-243.

Marvier, M. and P. Kareiva. 2014. The evidence and values underlying 'new conservation'. *Trends in Ecology & Evolution* 29: 131.

Marvier, M. and P. Kareiva. 2014. Extinction is a moral wrong but conservation is complicated. *Biological Conservation*.

Kareiva, P. 2014. New conservation: Setting the record straight and finding common ground. *Conservation Biology* 28:634-636.

Kareiva, P, C. Groves , and M. Marvier. 2014. The evolving linkage between conservation science and practice at The Nature Conservancy. *Journal of Applied Ecology* http://onlinelibrary.wiley.com/doi/10.1111/1365-2664.12259/full.

Ruckelshaus, M., McKenzie, E., Tallis, H., Guerry, A., Daily, G., Kareiva, P., Polasky, S., Ricketts, T., Bhagabati, N., Wood, S.A. and Bernhardt, J., 2015. Notes from the field: lessons learned from using ecosystem service approaches to inform real-world decisions. *Ecological Economics, 115*,

pp.11-21.

Kiesecker, J.M., McKenney, B. and Kareiva, P., 2015. Offsets: Factor failure into protected areas. *Nature*, *525*(7567), pp.33-33.

Guerry, A.D., Polasky, S., Lubchenco, J., Chaplin-Kramer, R., Daily, G.C., Griffin, R., Ruckelshaus, M., Bateman, I.J., Duraiappah, A., Elmqvist, T. and Feldman, M.W., 2015. Natural capital and ecosystem services informing decisions: From promise to practice. *Proceedings of the National Academy of Sciences*, *112*(24), pp.7348-7355.

Chaplin-Kramer, R., Sharp, R.P., Mandle, L., Sim, S., Johnson, J., Butnar, I., i Canals, L.M., Eichelberger, B.A., Ramler, I., Mueller, C. and McLachlan, N., 2015. Spatial patterns of agricultural expansion determine impacts on biodiversity and carbon storage. *Proceedings of the National Academy of Sciences*, *112*(24), pp.7402-7407.

Kareiva, P.M., McNally, B.W., McCormick, S., Miller, T. and Ruckelshaus, M., 2015. Improving global environmental management with standard corporate reporting. *Proceedings of the National Academy of Sciences*, *112*(24), pp.7375-7382.

Karp, D.S., Mendenhall, C.D., Callaway, E., Frishkoff, L.O., Kareiva, P.M., Ehrlich, P.R. and Daily, G.C., 2015. Confronting and resolving competing values behind conservation objectives. *Proceedings of the National Academy of Sciences*, *112*(35), pp.11132-11137.

Karp, D.S., Mendenhall, C.D., Callaway, E., Frishkoff, L.O., Kareiva, P.M., Ehrlich, P.R., Daily, G.C. 2015. Reply to Kirchhoff: Homogenous and mutually exclusive conservation typologies are neither possible nor desirable. *Proceedings of the National Academy of Sciences, 112*(44).

Kareiva, P. and Fuller, E., 2016. Beyond Resilience: How to Better Prepare for the Profound Disruption of the Anthropocene. *Global Policy*, *7*(S1), pp.107-118.

Larson, E.R., Howell, S., Kareiva, P. and Armsworth, P.R., 2016. Constraints of philanthropy on determining the distribution of biodiversity conservation funding. *Conservation Biology*, *30*(1), pp.206-215.

Marvier, M., Kareiva, P. and Fuller, E., 2016. Mark Plummer's Legacy: Leave No Orthodoxy Unquestioned. *Coastal Management*, *44*(5), pp.380-396.

Keeler, B.L., Chaplin-Kramer, R. Guerry, A.D., Addison, P.F.E., Bettigole, C., Burke, I.C., Gentry, B., Chambliss, L., Young, C., Travis, A.J., Darimont, C.T., Gordon, D.R., Hellmann, J., Kareiva, P., Monfort, S., Olander, L., Profeta, T., Possingham, H.P., Slotterback, C., Sterling, E., Ticktin, T., and Vira, B. 2016. Society Is Ready for a New Kind of Science—Is Academia? *BioScience, 67*(7), pp.591-592.

Gentry, R.R., Froehlich, H.E., Dietmar, G., Kareiva, P., Parke, M., Rust, M., Gaines, S.D., and Halpern, B.S., 2017. Mapping the global potential for marine aquaculture. *Nature Ecology & Evoluation, 1*, pp.1317-1324.

Fuller, E. and Kareiva, P. 2017. The Long and Short of Environmental Solutions. *Global Policy, 8*(2), pp.257-258.

Gould F., Amasino, R.M., Brossard, D., Buell, C.R., Dixon, R.A., Falck-Zepeda, J.B., Gallo, M.A., Giller, K.E., Glenna, L.L., Griffin, T., Hamaker, B.R., Kareiva, P.M., Magraw, D., Mallory-Smith, C., Pixley, K.V., Ransom, E.P., Rodemeyer, M., Stelly, D.M., Stewart Jr, C.N., and Whitaker, R.J. 2017.

Elevating the conversation about GE crops. *Nature Biotechnology*, *35*(4), pp.302-304.

Paine, R., Buhle, E., Levin, S. and P. Kareiva. 2017. Short-range dispersal maintains a volatile marine metapopulation: the brown alga *Posteslia palmaeformis*. *Ecology*, *98*(6), pp.1560-1573.

Kareiva, P. and Carranza, V., 2018. Existential risk due to ecosystem collapse: Nature strikes back. *Futures*, *102*, pp.39-50.

Davies, I.P., Carranza, V., Froehlich, H.E., Gentry, R.R, Kareiva, P., and Halpern, B.S. 2019. Governance of marine aquaculture: Pitfalls, potential, and pathways forward. *Marine Policy 104*, pp. 29-36.

Fisher, J.R.B. and Kareiva, P. 2019. Using environmental metrics to promote sustainability and resilience in agriculture. *Agricultural Resilience*, pg. 340.

Davies, I.P., Christensen, J, and Kareiva, P. 2019. Assessing the flow to low-income urban areas of conservation and environmental funds approved by California Proposition 84. *PloS one 12 (2)*, e0211925.

Krishnamurthy R, P.K., Fisher, J.B., Schimel, D.S. and Kareiva, P.M., 2020. Applying tipping point theory to remote sensing science to improve early warning drought signals for food security. *Earth's Future*, *8*(3), p.e2019EF001456.

Krishnamurthy, P.K., Choularton, R.J. and Kareiva, P., 2020. Dealing with uncertainty in famine predictions: How complex events affect food security early warning skill in the Greater Horn of Africa. *Global Food Security*, *26*, p.100374.

He, Z., Xiao, L., Guo, Q., Liu, Y., Mao, Q. and Kareiva, P., 2020. Evidence of causality between economic growth and vegetation dynamics and implications for sustainability policy in Chinese cities. *Journal of Cleaner Production*, *251*, p.119550.

Buck, H.J., Martin, L.J., Geden, O., Kareiva, P., Koslov, L., Krantz, W., Kravitz, B., Noël, J., Parson, E.A., Preston, C.J. and Sanchez, D.L., 2020. Evaluating the efficacy and equity of environmental stopgap measures. *Nature Sustainability*, pp.1-6.

Spillias, S., Kareiva, P., Ruckelshaus, M. and McDonald-Madden, E., 2020. Renewable energy targets may undermine their sustainability. *Nature Climate Change*, pp.1-3.

Marvier, M. and Kareiva, P., 2020. It is time to rebalance the risk equation. Wiley Online, Conservation Science and Practice.

Hirashiki, C., Kareiva, P., & Marvier, M. (2021). Concern over hybridization risks should not preclude conservation interventions. *Conservation Science and Practice*, e424.

Phelan, R., Kareiva, P., Marvier, M., Robbins, P., and M. Weber.(2021). Why Intended Consequences? *Conservation Science and Practice*, e408.

Phelan, R., Baumgartner, B., Brand, S., Brister, E., Burgiel, S. W., Charo, R. A., ... & Robbins, P. (2021). Intended consequences statement. *Conservation Science and Practice*, e371.

Kareiva, Peter, Mark Bailey, Dottie Brown, Barbara Dinkins, Lane Sauls, and Gena Todia. "Documenting the conservation value of easements." *Conservation Science and Practice* (2021): e451.

Kareiva, P., Estes, J. A., & Marvier, M. (2021). Restore protected status for gray wolves. *Science*, *373*(6555), 632-632.

Krishnamurthy R, P. K., Fisher, J. B., Choularton, R. J., & Kareiva, P. M. (2022). Anticipating drought-related food security changes. *Nature Sustainability*, *5*(11), 956-964.

Kareiva, P., Attwood, S. K., Bean, K., Felix, D., Marvier, M., Miketa, M. L., & Tate-Pulliam, E. (2022). A new era of wolf management demands better data and a more inclusive process. *Conservation Science and Practice*, *4*(11), e12821.

Marvier, M., Kareiva, P., Felix, D., Ferrante, B. J., & Billington, M. B. (2023). The benefits of nature exposure: The need for research that better informs implementation. *Proceedings of the National Academy of Sciences*, *120*(44), e2304126120.

Shaughnessy, B. K., Almada, A., Thompson, K., Marvier, M., & Kareiva, P. (2023). Are all benefits equal? An exploratory analysis of coastal perspectives of seafood farming expansion in the United States. *Journal of the World Aquaculture Society*, *54*(4), 899-914.

Book Chapters:

Kareiva, P. 1983. Influence of vegetation texture on herbivore populations: Resource concentration and herbivore movement. Pp. 259-289 in R. Denno & M. McClure, (eds). *Variable Plants and Herbivores in Natural and Managed Systems.* New York: Academic Press.

Kareiva, P. 1985. Patchiness, dispersal, and species interactions: Consequences for communities of herbivorous insects. Pp. 192-206 in J. Diamond and T. Case, (eds). *Community Ecology*. New York: Harper & Row Publishers.

Kareiva, P. 1986. Trivial movement and foraging by crop colonizers. Pp. 59-82 in M. Kogan, (ed). *Ecological Theory and Integrated Pest Management Practice.* N.Y.: Wiley Interscience.

Kareiva, P. 1988. Renewing the dialogue between theory and experiments in population ecology. Pp. 68-88 in J. Roughgarden, R. May and S. Levin, (eds). *Perspectives in Theoretical Ecology*. Princeton: Princeton University Press.

Kareiva, P. 1989. Establishing a foothold for theory in biocontrol practice: Using models to guide experimental design and release protocols. Pp. 65-81 in *UCLA Symposia on Molecular and Cellular Biology*, volume 112.

Kareiva, P. 1989. The spatial dimension in pest-enemy interactions. Pp. 213-227 in M. MacKauer, L. Ehler and J. Roland, (eds). *Critical Issues in Biological Control*. Andover: Intercept Press.

Kareiva, P. 1990. Using models of population spread to analyze the results of field releases. Pp. 168-174 in J. Marois and G. Bruening, (eds). *Risk Assessment in Agricultural Biotechnology: Proceedings of the International Conference*. Oakland: Division of Agriculture and Natural Resources, University of California Press.

Power, A. and P. Kareiva. 1990. Herbivorous insects in agroecosystems. Pp. 301-327 in C. Carroll, J. Vandermeer and P. Rossett, (eds). *Agroecology*. N.Y.: McGraw-Hill.

Manasse, R. and P. Kareiva. 1991. Quantifying the spread of recombinant organisms and recombinant genes. Pp. 215-231 in L. Ginzburg, (ed). *Assessing Ecological Risks of Biotechnology*. Boston: Butterworth-Heinemann.

Kareiva, P. and W. Morris. 1991. Using models to integrate data from field trials and estimate risks of gene escape and gene spread. Pp. 31-44 in D. MacKenzie and S. Henry, (eds). *Biological Monitoring of Genetically Engineered Plants and Microbes*. Bethesda: Agricultural Research Institute.

Kareiva, P., W. Settle and M. Lewis. 1992. The significance of vegetation structure as a constraint on insect mobility: Implications for pest management. In M. Shiyomi, (ed). *Ecological Processes in Agro-ecosystems*. Tsukuba: National Institute of Agro-Environmental Sciences.

Winterer, J., B. Klepetka, J. Banks and P. Kareiva. 1992. Crop intensification and increased pest problems: Are there strategies for minimizing the vulnerability of rice to pest epidemics. 1992 International Rice Research Conference. IRRI.

Veit, R., P. Kareiva, D. Doak, A. Engh, S. Heppell, M. Hollon, C. Jordan, R. Morgan, W. Morris, G. Nevitt and G. Smith. 1992. Foraging interactions between pelagic seabirds and Antarctic Krill at South Georgia during winter 1991. *Antarctic Journal of the United States. 1991 Review Issue.*

Veit, R., P. Kareiva, M. Hollon and G. Nevitt. 1993. Behavioral responses by seabirds to aggregations of Antarctic Krill. *Antarctic Journal of the United States. 1992 Review Issue.*

Andow, D., P. Kareiva, S. Levin and A. Okubo. 1993. Spread of invading organisms: Patterns of spread. Pp. 219-242 in K. Kim and B. McPheron, (eds). *Evolution of Insect Pests: Patterns of Variation*. N.Y.: J. Wiley & Sons.

Andersen, M. and P. Kareiva. 1993. Interactions between imported predators and their prey in patchy environments. Pp. 243-258 in K. Kim and B. McPheron, (eds). *Evolution of Insect Pests: Patterns of Variation*. N.Y.: J. Wiley & Sons.

Kareiva, P., J. Winterer and B. Klepetka. 1993. Overcoming pest and pathogen adaptability using insights from evolutionary biology. Pp. 23-33 in E. Nester and D. Verma, (eds). *Advances in Molecular Genetics of Plant-Microbe Interactions,* Volume 2. Boston: Kluwer Academic Publishers.

Minta, S. and P. Kareiva. 1994. A conservation science perspective: Conceptual and experimental improvements. Pp. 275-304 in T. Clark, R. Reading and A. Clarke, (eds). *Endangered Species Recovery: Finding the Lessons, Improving the Process*. Washington, D.C.: Island Press.

Kareiva, P., J. Stark and U. Wennergren. 1996. Using demographic theory, community ecology, and spatial models to illuminate ecotoxicology. Pp. 13-23 in L. Maltby & P. Greig-Smith, (eds). Ecotoxicology: Ecological Dimensions. N.Y.: Chapman & Hall.

Kareiva, P., D. Skelly and M. Ruckleshaus. 1996. Reevaluating the use of models to predict the consequences of habitat loss and fragmentation. Pp. 156-166 in S. Pickett, R. Ostfeld, M. Shachak and G. Likens, (eds). *The Ecological Basis of Conservation*. N.Y.: Chapman & Hall.

Meir, E. and P. Kareiva. 1997. Contributions of spatially explicit landscape models to conservation biology. Pp. 497-507 in P. Fiedler and P. Kareiva, (eds). *Conservation Biology for the Coming Decade.* N.Y.: Chapman & Hall.

Steinberg, E. and P. Kareiva. 1997. Challenges and opportunities for empirical evaluation of "spatial theory." Pp. 318-332 in D. Tilman and P. Kareiva, (eds). *Spatial Ecology: The Role of Space in Population Dynamics and Interspecific Interactions.* Princeton: Princeton University Press.

Tilman, D., C. Lehman and P. Kareiva. 1997. Population dynamics in spatial habitats. *1997.* Pp. 3-20

in D. Tilman and P. Kareiva, (eds). *Spatial Ecology: The Role of Space in Population Dynamics and Interspecific Interactions.* Princeton: Princeton University Press.

Hartway, C. and P. Kareiva. 1998. The contributions of spatially explicit population models to the design of ecological monitoring programs. In J Bascompte and R. Sole, (eds). *Modeling Spatiotemporal Dynamics in Ecology*. Springer-Verlag.

Chang, G. and P. Kareiva. 1999. The importance of generalist predators in biological control. In B. Hawkins and H Cornell, (eds). *Theoretical Approaches to Biological Control*, Cambridge University Press.

Marvier, M. A., E. Meir, and P. M. Kareiva. 1999. How do the design of monitoring and control strategies affect the chance of detecting and containing transgenic weeds? Pp. 109–122 in K. Ammann, Y. Jacot, V. Simonson, and G. Kjellsson (eds). *Risks and Prospects of Transgenic Plants, Where Do We Go From Here? Vol. 3.* Birkhasuer Press, Basel.

Marvier, M. A. and P. Kareiva. 1999. Extrapolating from field experiments that remove herbivores to population-level effects of herbivore resistance transgenes. Pp. 57-64 in Traynor, P. L. and J. H. Westwood, (eds). Proceedings from: *Workshop on Ecological Effects of Pest Resistance Genes in Managed Ecosystems*. Sponsored by Information Systems for Biotechnology, Blacksburg, Virginia.

Holmes, E. and P. Kareiva. 2000. Can we use focal species to anticipate ecosystem-level consequences of environmental pollutants? In Peter Albers (ed). *Ecotoxicology and Wildlife Ecology*. Smithsonian Press.

Kareiva, P. and M. A. Marvier. 2000. An overview of risk assessment procedures applied to genetically engineered crops. Pp. 231-238 in *Incorporating Science, Economics, and Sociology in Developing Sanitary and Phytosanitary Standards in International Trade. Proceedings of a Conference*. Board on Agriculture and Natural Resources. National Research Council. National Academy Press, Washington, DC.

Schiewe, M. and P. Kareiva. 2000. Salmon. In: *Encyclopedia of Biodiversity*. Academic Press, San Diego, California.

Kareiva, P. 2000. Modeling in Ecology. In *McGraw Hill Encyclopedia of Science and Technology*. McGraw-Hill, New York.

Kareiva, P. 2000. Disease Ecology. In *McGraw Hill Encyclopedia of Science and Technology*. McGraw-Hill, New York.

Kareiva, P. and M. A. Marvier. 2001. Concepts and Theories in Ecology. Pp. 259-268 in: *Encyclopedia of Biodiversity*. Academic Press, San Diego, California.

Lawler, S., J. Armesto, and P. Kareiva. 2001. How relevant to conservation are studies linking biodiversity and ecosystem functioning? In Kinzig, A.P., S. Pacala, and D. Tilman (eds). *Biodiversity and Ecosystem Functioning: Empirical and Theoretical Extensions.* Princeton University Press, Princeton, NJ.

Kareiva, P. 2002. Conservation of populations and species. *Encylcopedia of Life Sciences*. Nature Publishing Group. MacMillan Reference Limited, London, UK.

Kareiva, P. (Coordinating Lead Author), J.B.R. Agard, J. Alder, E. Bennett, C. Butler, S. Carpenter, W.W.L. Cheung, G.S. Cumming, R. Defries, B. de Vries, R.E. Dickinson, A. Dobson, J.A. Foley, J.

Geoghegan, B. Holland, P. Kabat, J. Keymer, A. Kleidon, D. Lodge, S.M. Manson, J. McGlade, H. Mooney, A.M. Parma, M.A. Pascual, H.M. Pereira, M. Rosegrant, C. Ringler, O.E. Sala, B.L. Turner II, D. van Vuuren, D.H. Wall, P. Wilkinson, and P. Wolters. 2006. State of the art in simulating future changes in ecosystem services. *Millennium Assessment Scenarios Volume*. Island Press.

Kareiva, P., T. H. Tear, S. Solie, M.L. Brown, L. Sotomayor, C. Yuan-Farrell. 2006. Nongovernmental organizations. Pp. 176-191 in Goble, D., J.M. Scott, and F. Davis (eds). *The Endangered Species Act at Thirty: Renewing the Conservation Promise.* Island Press.

Kareiva, P., C. Yuan-Farrell, and C. O'Connor. 2006. Whales are big and it matters. Pp. 379-387 in Estes, J. A., D. P. Demaster, D. F. Doak, T. M. Williams, and R. L. Brownell (eds) *Whales, Whaling and Ocean Ecosystems*. University of California Press: Berkeley, CA.

Murdoch, W., M. Bode, J. Hoekstra, P. Kareiva, S. Polasky, H. P. Possingham, and K. A. Wilson. 2010. Trade-offs in identifying global conservation priority areas, in *Trade-Offs in Conservation: Deciding What to Sav*e Pp. 35-55 in Leader-Williams, N., W. M. Adams, and R. J. Smith (eds). Chichester, UK: Wiley-Blackwell. doi: 10.1002/9781444324907.ch3

Goldman, R. L., G. C. Daily, and P. Kareiva. 2010. Trade-offs in making ecosystem services and human well-being priorities. Pp. 56-72 in Leader-Williams, N., W. M. Adams, and R. J. Smith (eds). *Trade-offs in Conservation: Deciding What to Save*. Chichester, UK: Wiley-Blackwell. doi: 10.1002/9781444324907.ch4

Ruckelshaus, Mm, P. Kareiva P., and L. Crowder. 2014. The future of marine conservation and management. In: Bertness MD, Bruno JF, Silliman BR, Stachowicz JJ, eds., *Marine Community Ecology and Conservation*. Sunderland, MA: Sinauer.

Kareiva, P. and Kareiva, I. 2017. Framing Concepts in Environmental Science, Environmental Issues and Problems in *Biodiversity Hotspots and Conservation Priorities*. Oxford Research Encyclopedia of Environmental Science. doi: 10.1093/acrefore/9780199389414.013.95

Fisherm J.R.B. and Kareiva, P. 2019. Using environmental metrics to promote sustainability and resilience in agriculture in *Agricultural Resilience: Perspectives from Ecology and Economics*. Cambridge University Press, Cambridge, UK.

Buck, H., Kareiva, P., and Hirashiki, C. 2018. Environmental and Natural Disasters: "Surprise" versus "Degradation". Pp. 105-122 in *UCLA Engineering Workshop on Quantifying Global Catastrophic Risks.*

Technical Reports:

Kareiva, P. 1988. A comment on modeling approaches to the question of invasion and spread of microbes. In EPA report on, "The integration of research and predictive model development in biotechnology risk assessment."

Kareiva, P., D. Doak, B. Klepetka and R. Manasse. 1991. Viable population models and analysis for the desert tortoise in the Western Mojave. Prepared for the BLM and US Army Corps of Engineers.

Kareiva, P., M. Groom, I. Parker and J. Ruesink. 1991. Using ecological theory to develop risk analysis protocols for non-indigenous species. A report for the Office of Technology Assessment, U. S. Congress.

Kareiva, P. and I. Parker. 1994. Environmental risks of genetically engineered organisms and key regulatory issues. Independent report prepared for Greenpeace International. Canonbury Villas, London, U.K.

Kareiva, P., M. Marvier, M. McClure, P. McElhany, M. Ruckelshaus, B. Sanderson, and R. Waples. 1999. An introduction to NMFS decision-support science for ESA decision making, with examples. National Marine Fisheries Service, NOAA.

Baron, J. S., S. H. Julius, J.M. West, L. A. Joyce, G. Blate, C. H. Peterson, M. Palmer, B. D. Keller, P. Kareiva, J. M. Scott and B. Griffith. 2008. Some guidelines for helping natural resources adapt to climate change. *IHDP Update* 2008 (2):46-52.

Staudinger, M. D., Grimm, N. B., Staudt, A., Carter, S. L., Chapin III, F. S., Kareiva, P., & Stein, B. (2013). Impacts of climate change on biodiversity, ecosystems, and ecosystem services: technical input to the 2013 National Climate Assessment. *Cooperative Report to the 2013 National Climate Assessment*. http://assessment.globalchange.gov.

Kareiva, P. and Carranza, V., 2017. Fealty to symbolism is no way to save salmon. In *Effective conservation science: data not dogma*. Edited by Kareiva, Marvier and Silliman. Oxford University Press.

Books Edited:

Kareiva, P., J. Kingsolver and R. Huey (eds). 1993. *Biotic Interactions and Global Change*. Sunderland, MA: Sinauer Press.

Fiedler, P. and P. Kareiva (eds). 1997. *Conservation Biology for the Coming Decade.* NY: Chapman & Hall.

Tilman, D. and P. Kareiva (eds). 1997. *Spatial Ecology.* Princeton University Monograph series. NJ: Princeton University Press.

Kareiva, P. (ed). 1997. *Exploring Ecology and Its Applications*. Sunderland, MA: Sinauer Press.

Clark, T. W., A. P. Curlee, S. C. Minta, and P. Kareiva (eds). 1999. *Carnivores in Ecosystems: The Yellowstone Experience*. Yale University Press. New Haven, CT

Kareiva, P. and S. Levin (eds). 2003. *The Importance of Species: Perspectives on Expendability and Triage.* Princeton University Press. Princeton Monograph Series. Princeton, NJ.

Kareiva, P., H. Tallis, T. Ricketts, G. Daily, S. Polasky. 2011. Natural Capital: *Theory & Practice of of Mapping Ecosystem Services.* Oxford University Press, New York, NY.

Kareiva, P.M., Marvier, M. and Silliman, B. eds., 2017. *Effective conservation science: data not dogma*. Oxford University Press.

Books Written:

Kareiva, P. and M. Marvier. 2011. *Conservation Science: Balancing the Needs of People and Nature*. Roberts & Co.

Kareiva, P. and M. Marvier. 2015. *Conservation Science: Balancing the Needs of People and Nature.* 2nd edition. Roberts & Co.

Special Reports:

Morris, W., D. Doak, M. Groom, P. Kareiva, L. Gerber, and J. Regetz. 1999. *Handbook for Population Viability Analysis*. TNC Publication

Kareiva, P *et al*. 1998. *Using Science in Habitat Conservation Plans.* AIBS/NCEAS report on Habitat Conservation Planning in the US. Includes analysis and synthesis of 90,000 data entries regarding 200 HCPs that were examined. Available from NCEAS or AIBS website.

Popular Articles:

Marris, E., Kareiva, P., Mascaro, J., and Ellis, E.C. 2011. Hope in the Age of Man. Opinion, *The New York Times*. https://www.nytimes.com/2011/12/08/opinion/the-age-of-man-is-not-a-disaster.html

Kareiva, P., M. Marvier, and R. Lalasz. 2012. Anthropocene revisited but not reviled. *The Breakthrough Journal.* http://breakthroughjournal.org/content/debates/anthropocene-revisited.shtml

Molnar, J.L. and Kareiva, P. 2015. Conservation chemistry. *Chemistry and Industry 79 (7)*, pp. 40-40.

Allen, P. and P. Kareiva. 2017. Hollywood needs to make more movies about climate change. Opinion piece in *Variety Magazine* 25 April 2017.

EDITORIAL BOARDS SERVED ON

Ecology	1986-1997
American Naturalist	1996-1999
Theoretical Population Biology	1992-1996
Oecologia	1994-1999
Molecular Ecology	1995-2000
Molecular Biotechnology	1996
Comments on Theoretical Biology	1990-1996
Global Change Biology	1995-2003
American Scientist	1996-2006
Integrative Biology (Editor-in-Chief)	1998-1999
Biological Invasions	1998-2004
McGraw-Hill Encyclopedia of Science and Technology	1998-2004
Conservation magazine (Advisory board)	2000-current
TREE monthly IN BRIEF "columnist"	2001-2002
Issues in Ecology	2004-2007
Faculty of 1000 member (Ecology section)	2004-2008

GRANTS AND AWARDS

1982 NSF DEB-8207117. The role of dispersal in the dynamics of plant-insect associations. ($60,000) 7/82 - 7/84

1985 Olympus Project Grant. Computer-Aided Instruction in Biology. ($7,000) 6/85 - 6/86

1985 NSF BSR 8500343. Patchiness, aggregated predation and a spatially-distributed ladybug-aphid interaction. ($48,000) 6/85 - 1/87

1986 NSF BSR 8517183, G. Odell, co-PI. Using models of area restricted search behavior to evaluate predator effects and effectiveness. ($104,000) 1/86 - 1/88

1986 NSF BSR 8616597. Capricious spring weather and population fluctuations in the woodland butterfly, *Pieris virginiensis*. ($97,992) 5/86 - 5/88

1986 NSF BSR 86-05303. Influence of host patch size on herbivore population dynamics. ($89,998) 6/86 - 6/88

1988 NSF BSR-8806351. How plant architecture mediates interactions between herbivorous insects and their predators. ($93,665) 6/88 - 10/89

1988 USDA Competitive Grants Program. Comparing the hunting abilities of prospective biocontrol agents. ($105,000) 7/1/89 - 7/1/91

1989 USDA Competitive Grants Program. Experimental and theoretical studies of the spatial spread of genes through weeds. ($147,000) 7/1/89 - 7/1/91

1990 NSF Polar Programs grant. Models of Antarctic seabird foraging. ($168,000) 7/1/90 - 7/1/92

1991 NSF Workshop on Global Environmental Change, J. Kingsolver and R. Huey, co-PI's. Changing Climate and Changing Landscapes. ($63,000) 6/1/91 - 6/1/92

1991 USDA Biotechnology Program. Risk analysis for the spread of transgenic cotton pollen: is here any generality possible? ($15,000) 7/1/91 - 12/31/91

1992 NSF Polar Programs. Aggregation of Antarctic seabirds to patches of krill: models and behavioral analyses. ($249,340) 1/93 - 1/95

1992 USDA Weed Science. Do field experiments yield consistent results regarding the risk of transgenic gene escape: a case study using cotton. ($98,187) 7/16/92 - 7/15/94

1993 EPA Exploratory Research Grant. Modeling the invasiveness and risk of genetically engineered microbes. ($163,858) 10/92 - 10/94

1993 NSF Training Grant, G. Odell and T. Daniel, co-PI's. Mathematical Biology Training Grant. ($510,000) 10/93 - 10/98

1994 NSF Conservation Biology Program. How does model structure influence recommended management policy for threatened species? ($100,000) 7/94 - 7/96

1995 USDA Entomology Program. The impact of exotic ladybird beetles on native coccinellid fauna. ($120,000) 5/95 - 5/97

1996 NSF Ecology Program. DNA fingerprinting and modeling pine marten use of the Yellowstone ecosystem. ($60,000) 6/95 - 6/97

1997 The Nature Conservancy. Designing a research plan for an endangered plant on Ft. Lewis. ($13,500) 1/97 - 6/97

1997 USDA Biocontrol Program. The role of cannibalism in the success and impact of generalist predators ($100,000) 11/97- 1/99

1997 Population viability analysis for *Aster curtus*, a threatened prairie perennial. Department of Army, ($20,000) 7/97-5/98

2002 NSF Ecosystem Science Cluster, C.L. Redman, A.P. Kinzig, D.R. Foster, and M.P. Gutmann, co-PIs. Agrarian landscapes in transition: A cross-scale approach ($1,999,952) 8/02 - 7/06

2004 U.S. Environmental Protection Agency, National Center for Environmental Research. Michelle Marvier, co-PI. Evidence based risk analysis: learning from our experiences with genetically modified crops. ($232,347) 10/04-9/07

2006 U.S. Environmental Protection Agency. Adaptation options for climate sensitive ecosystems and resources – a synthesis of case study results. ($25,000) 1/07-12/08

2008 NSF Collaborative Research. Integrated dynamic modeling of ecosystem services, incentive-based policies, land use decision, and ecological outcomes ($60,000)

2017 Jet Propulsion Laboratory/National Aeronautics and Space Administration. Drought Tipping Points: Can Satellite Remote Sensing Provide Improved Early Warning Signals for Food and Water Security? ($54,000) 10/17/17-09/29/19

2017 Waitt Family Foundation. Tools for a Perpetual Blue Economy. ($600,000) 12/31/17-12/31/19

2018 Nature Conservancy. Climate Science and Managing Nature to Minimize the Damage of Extreme Events. ($75.923) 11/01/18-10/31/19

2018 Boeing. GreenSmarts and GreenShorts: Environmental Science and Filmmaking for Undeserved Students. ($140,250)

COMMUNITY SERVICE AND SCIENCE ADVISORY ACTIVITIES (External)

1986-1991	National Science Foundation Ecology Panel
1990	FAO Review of Anti-Locust Research in Africa
1990-current	Scientific Advisory Board for Princeton University, Department of Ecology and Evolutionary Biology Department
1992, 1994	NRC Biology Advisory Panel for International Science Foundation
1992, 1994	USDA Entomology Panel
1993	U.S. Dept. of Interior, National Gap Analysis Peer Review Panel
1994-2001	The Global Board of Governors, The Nature Conservancy
1995, 1996	NRC Panel on Ecological Impacts of ELF Radiation
1995-1997	Scientific Advisory Board for National Center for Ecological Analysis and Synthesis
1996	Evaluator of International Rice Research Institute programs in Entomology & Plant Pathology and Genetic Engineering in the Philippines
1996	USDA Biotechnology Risk Assessment Panel
1996, 1997	NRC Panel on Ecological Advisability of Predator Control in Alaska
1997	Evaluator of University of California at Davis' graduate program in Ecology

1998 NRC Panel on risk assessment and international trade agreements

1999-2001 The Nature Conservancy, State of Washington Board of Trustees

1999-2001 Board of Governing Scientists for The Society for Conservation Biology

2001 EPA Multiple stressor and landscape scale ecosystem stressor panel

2003-2005 Advisory Panel to Center for Integrating Statistical and Environmental Sciences, University of Chicago

2004-2005 NRC Panel on "*Global Challenges and Directions for Agricultural Biotechnology*"

2005- 2006 National Science Board Workshop: Supporting High-Risk Transformative Research

2006 Lead Author, EPA Synthesis Chapter on "Adaptation options for climate-sensitive ecosystems", CCSP inter-agency report for US Climate Change Initiative

2010-2015 National Climate Assessment Federal Advisory Committee

2013-2014 NRC Committee to produce report: *Enhancing the Value of Field Stations and Marine Laboratories in the 21st Century*

2015-2016 NRC Committee: *Genetically engineered Crops: Experience & Prospects*

2015 – 2017 Chair of the Board for SNAPP (Science for Nature and People Partnership)

2016 – current Board, Sustainable Conservation

2010- 2017 NOAA Science Advisory Board

2015 – current Board of Earth Genome (see https://www.earthgenome.org/).

2017 –2018 NRC Committee: *Review of USGS Energy Resources Program*

2018 – current Board of "*Cloud to Street"* nonprofit

2020 – current Lead Editor for *Frontiers in Climate and Ecology*

2021 – current Chief Scientist for relistwolves.org

2021 Eleanor Ostrom Lecturer, University of Indiana

2022 Co-Chair National Academy of Science Strategy Group on "*COVID* and ecosystem Services in the Built Environment"

UCLA SERVICE

2016 Chaired Search Committee for Pablo Saide hire

2016 to current Advisory Board for La Kretz Center for California Conservation Science

2018 to current Serving on UC-CSU Steering Committee for ECCLPS (The Environmental and Climate Change Literacy Project and Summit)

2019 Acting Director, UCLA at Alta Sea

GRADUATE STUDENTS COMPLETING DEGREES AND POSTDOCTORAL ASSOCIATES

Graduate Students for whom Kareiva served as Major Advisor:

Michael Cain 1982	Full Professor at NMSU, Las Cruces
Mark Anderson 1987	Full Professor at NMSU, Las Cruces
Joy Bergelson 1990	Full Professor at University of Chicago
William Morris 1990	Full Professor at Duke University
Daniel Doak 1990	Full Professor at University of Colorado
Greg Dwyer 1990	Associate Professor at University of Chicago
Nathan Schumaker 1994	Senior Research Scientist with EPA
Martha Groom 1995	Full Professor at University of Washington
Elizabeth Holmes	Senior Scientist, National Marine Fisheries Service
William Fagan 1996	Full Professor at University of Maryland
John Banks 1997	Full Professor at University of Washington, Tacoma
Cheryl Schultz 1997	Full Professor at Washington State University, Vancouver
Ellen Gryj 1991	Analyst for Microsoft
Krishna Krishnamurthy 2019	Research Scientist, JPL

Postdoctoral Associates:

Peter Turchin 1985-1988	Full Professor at University of Connecticut
Tony Ives 1988-1990	Full Professor at University of Wisconsin
William Settle 1988-1991	FAO Senior Research Scientist
Robin Manasse 1988-1991	Senior Scientist with Sustainable Ecosystems Institute
Richard Veit 1990-1996	Full Professor at CUNY
Lloyd Goldwasser 1990-1992	NMFS Senior Scientist
Steve Minta 1992	Assistant Professor UCSC (now retired)
Gabby Nevitt 1993	Full Professor at UC Davis
Mark Lewis 1991-1992	Full Professor at University of Alberta
Louis Provencher 1991-1993	The Nature Conservancy, Research Scientist
Claudia Jacobi 1992-1995	Associate Professor at UNICAMP, Brazil
Uno Wennergen 1992-1995	Full Professor at Linkoping University, Sweden
Miguel Pascual 1993-1999	Argentina National Faculty Fellowship
David Skelly 1994-1996	Full Professor at Yale University
Mary Ruckleshaus 1994	Managing Director of the Natural Capital Project, Stanford
Ann Herzig 1995	Associate Professor at Wells College
Elizabeth Crone 1996-1997	Full Professor at Tufts University
Michelle Marvier 1997-1999	Full Professor at Santa Clara University

Dave Bigger 1997-1999	Senior Scientist, Bureau of Mines
John Sabo 2000-2001	Full Professor at Arizona State University
Chris Harvey 2001-2002	NOAA Fisheries Biologist
Josh Lawler 2004-2005	Full Professor at University of Washington
Sean Watts 2005-2007	AAAS Science & Technology Policy Fellow
Robert McDonald 2006- 2008	Senior Scientist, The Nature Conservancy
Brian Silliman 2004 - 2006	Full Professor, Duke University
Dan Karp 2014 - 2015	Assistant Professor, UC Davis
Daniel Swain 2016-2017	
Holly Buck 2018 -2020	Assistant Professor, SUNY Buffalo
Tomas Olivier 2018 – 2020	Assistant Professor, Florida Atlantic University