

CURRICULUM VITAE - MALCOLM L. HUNTER, JR.

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Education

1966 - 1970 Lincoln Academy, Newcastle, Maine
1970 - 1974 B.S. in Wildlife Science, University of Maine, Orono
1974 - 1978 D. Phil. in Zoology, Edward Grey Institute of Field Ornithology, Department of Zoology, Oxford University. Thesis title: "Environmental effects on the singing behaviour of Great Tits." Stipend from Rhodes Scholarship, Research funds from National Geographic Society

Employment

1971 Research Technician, Maine Dept. of Inland Fisheries and Wildlife
1972-74 Self-employed as ecological consultant. Funding from: Center for Natural Areas, Central New Hampshire Planning Office, Maine Bureau of Public Lands, Maine State Planning Office, Massachusetts Audubon Society, Mid-coast Audubon Society, New England Regional Commission, Smithsonian Institution, Time/Life Books.
1976 Research Assistant, U.S. Forest Service and School of Forest Resources, University of Maine
1978 Zoology Instructor, Oxford University
1978 - pr. Department of Wildlife Ecology, University of Maine, Current titles: Libra Professor of Conservation Biology and Professor of Wildlife Ecology

Scholarships and Academic Honors

1973 Rhodes Scholarship
1974 Graduated from University of Maine with Highest Distinctions
1974 P. F. English Award for outstanding wildlife student in northeastern U.S. and eastern Canada
1974 D. B. Demeritt Award for outstanding student in School of Forest Resources
1975 Senior Scholar, St. Catherine's College, Oxford University
1990 Libra Professor of Conservation Biology
1995 Pew Conservation Fellow
1996 University of Maine 1996 Distinguished Professor
1996 University of Maine Commencement Speaker
2003 Webber Award for Outstanding Forest Resource Research
2005 President Harris Award for contributions to the University of Maine
2007 Distinguished Service Award of the Society for Conservation Biology

Membership in Professional Societies

American Ornithologists Union (Elective member)
Ecological Society of America (Editorial board)
Society for Conservation Biology (President; Board of Governors; Editorial Board)

Membership and roles in other organizations

Doris Duke Charitable Foundation, Chair of Environmental Committee
Endangered Species Coalition, Scientific Advisory Board
Joseph Jones Ecological Research Center, Ichauway, Georgia, Scientific Advisory Comm.

Maine Council on Sustainable Forest Management (Gubernatorial appointment)
Maine Forest Biodiversity Project
Maine Bureau of Public Lands (Silvicultural Advisory Committee)
Maine Dept. Inland Fisheries and Wildlife (Nongame Advisory Council)
Maine Governor's Task Force on Management of Public Land (Gubernatorial appointment)
Maine Natural Areas Program, Advisory Board
Maine Ecological Reserves Scientific Advisory Committee (Gubernatorial appointment)
Maine Ecosystems Working Group
Nature Conservancy, Maine Chapter (Trustee; Chair, Conservation Priorities and International Comms)
Nature Conservancy, International (Science Review Panel; Smith Fellowship Review)
Natural Resources Council of Maine (Board of Directors; Forestry Committee)
President's Commission on Environmental Quality: Biodiversity Task Force
White House Task Force on Spotted Owls (Consultant)
World Conservation Union (IUCN); Species Survival Commission (Mustelid/Viverrid/Procyonid Specialist Group)

International Experience

Research, education, and conservation work in Australia, Belize, Botswana, Brazil, Canada, Dominica, D.R. Congo, Finland, Germany, Great Britain, Greece, India, Iran, Kenya, Mexico, Morocco, Nepal, Norway, Panama, Peru, Poland, Seychelles, South Africa, Spain, Sweden, Switzerland, Tanzania, Uganda, Zambia, Zimbabwe. Travel to over 40 other countries.

Consultant and reviewer for the U.S. Agency for International Development, Smithsonian Institution, World Wildlife Fund, World Conservation Union, United Nations Environment Program, and a member of the IUCN Species Survival Commission.

Graduate advisor to students from Argentina, Canada, Chile, India, Japan, Nepal, United Kingdom, Romania, Taiwan, and Zaire.

International funding from: British Overseas Development Administration, Fauna and Flora Preservation Society, National Geographic Society, Rockefeller Foundation, Royal Geographic Society, Toronto Zoo, U.S. Agency for International Development, U.S. Fish and Wildlife Service, Van Tienhoven Foundation, Volkart Foundation, Wildlife Conservation Society, World Pheasant Association, World Wildlife Fund (International and U.S.)

Rudimentary knowledge of Farsi, French, German, and Spanish

Books and Monographs

Hunter, M.L. Jr., J.P. Gibbs, and V. Popescu. In preparation. Fundamentals of conservation biology, 4th edition. Wiley-Blackwell, Oxford, United Kingdom

Hunter, M.L. D. Lindenmayer, and A. J.K. Calhoun. 2016. Saving the earth as a career: Advice on becoming a conservation professional. 2nd edition. Wiley-Blackwell, Oxford, United Kingdom.

Hunter, M.L. Jr. and F. Schmiegelow. 2011. Wildlife, forests, and forestry: Principles of managing forests for biological diversity. 2nd edition. Prentice-Hall, Upper Saddle River, NJ. 259 pp.

Gibbs, J., M.L. Hunter, Jr. and E. Sterling. 2008. Problem-solving in conservation biology and wildlife management: Exercises for class, field, and laboratory, 2nd edition. Blackwell Publishing, Oxford, United Kingdom. 328 pp.

Hunter, M.L. D. Lindenmayer, and A. J.K. Calhoun. 2007. Saving the earth as a career: Advice on becoming a conservation professional. Blackwell Publishing, Oxford, United Kingdom. 200pp.

Hunter, M.L. Jr. and J.P. Gibbs. 2007. Fundamentals of conservation biology, 3rd edition. Blackwell Publishing, Oxford, United Kingdom, 497pp.

Hunter, M.L. Jr. 2002. Fundamentals of conservation biology, 2nd edition. Blackwell Science, Malden, Massachusetts, 547pp.

- Hunter, M.L. Jr. (editor). 1999. Maintaining biodiversity in forest ecosystems. Cambridge University Press, Cambridge, England. 698pp.
- Hunter, M.L. Jr., A. Calhoun and M. McCollough.(editors). 1999. Maine amphibians and reptiles. University of Maine Press, Orono, Maine. 252pp.
- Gibbs, J., M.L. Hunter, Jr. and E. Sterling. 1998. Problem-solving in conservation biology and wildlife management: Exercises for class, field, and laboratory. Blackwell Science, Malden, Massachusetts. 215pp.
- Hunter, M.L. Jr. 1996. Fundamentals of conservation biology. Blackwell Science, Cambridge, Massachusetts, 482pp.
- Witham, J., E. Moore, M. Hunter, A. Kimball, and A. White. 1993. Long-term study of an oak-pine forest ecosystem: Techniques manual for the Holt Research Forest. Maine Agricultural Experiment Station Technical Bulletin 153. 164 pp.
- Hunter, M.L. Jr., J. Albright and J. Arbuckle 1992. The amphibians and reptiles of Maine. Maine Agricultural Experiment Station Bulletin 838. 188 pp.
- Hunter, M.L. Jr. 1990. Wildlife, forests, and forestry: Principles of managing forests for biological diversity. Prentice-Hall, Englewood Cliffs, NJ. 370pp.
- Gaston, A.J., M.L. Hunter, Jr, and P.J. Garson. 1981. The wildlife of Himachal Pradesh, Western Himalayas. School of Forest Resources Technical Note No. 82, Orono, ME. 159pp.
- Hunter, M.L. Jr. 1976. Maine ecosystems. Center for Natural Areas. Washington, D.C. 224pp.

Refereed Journals

- Eakin, C., A.J.K. Calhoun, and M. Hunter, Jr. In press. Indicators of wood frog *Lithobates sylvaticus* condition in an urbanizing landscape. *Ecosphere*.
- Eakin, C., A.J.K. Calhoun, and M. Hunter, Jr. In press. Effects of suburbanizing landscapes on vernal pool-breeding amphibian reproductive effort. *Herpetological Conservation and Biology*.
- Hoffmann, K., M. Hunter, Jr., A.J.K. Calhoun, and J. Bogart. In press. Post-breeding migration and habitat of unisexual salamanders in Maine, USA. *Journal of Herpetology*.
- Eakin, C., M. Hunter, Jr., and A.J.K. Calhoun. The influence of land cover and within-pool characteristics on larval, froglet, and adult wood frogs along a rural to suburban gradient. *Urban Ecosystems*. Published online 6 February 2019
- Eakin, C., M. Hunter, Jr., and A.J.K. Calhoun. 2018. Bird and mammal use of vernal pools along an urban development gradient. *Urban Ecosystems* 21:1029-1041.
- Hunter, M. 2017. Conserving small natural features with large ecological roles: an introduction and definition. *Biological Conservation* 211 (Special Issue):1-2.
- Hunter, M., et 13 coauthors. 2017. Conserving small natural features with large ecological roles: a synthetic overview. *Biological Conservation* 211 (Special Issue):88-95.
- Acuña,V., M.L. Hunter, A. Ruhí. 2017. Managing temporary streams and rivers as unique rather than second-class ecosystems. *Biological Conservation* 211 (Special Issue):12-19.

- Ogawa, R. A. Mortelliti, J. W. Witham, and M. L. Hunter, Jr. 2017. Demographic mechanisms linking tree seeds and rodent population fluctuations: insights from a 33-year study. *Journal of Mammalogy* 98:419-427
- Feuka, A.B., K. E. Hoffmann, M. L. Hunter, Jr., and A.J.K. Calhoun. 2017. Effects of light pollution on habitat selection in post-metamorphic wood frogs (*Rana sylvaticus*) and unisexual blue-spotted salamanders (*Ambystoma laterale x jeffersonianum*). *Herpetological Conservation and Biology* 12:470-476.
- Call, E. and M. Hunter. 2017. Evaluating the framework of a new river-bird survey method. *River Research and Applications* 33: 495-504
- Cline, B.B. and M. L. Hunter, Jr. 2016. Initial movements of a dispersing amphibian in response to partial harvesting in the Acadian forest of Maine, USA. *Forest Science* 62:333-342.
- Hoffmann, K., A. Calhoun, and M. Hunter. 2016. A deep-water funnel trap for salamanders. *Herpetological Review* 47:205-206.
- Cline, B.B. and M.L. Hunter, Jr. 2016. Movement in the matrix: Substrates and distance-to-forest edge affect the post-metamorphic movements of a forest amphibian. *Ecosphere* 7(2):e01202. 10.1002/ecs2.1202
- Wood, C.M., J.W. Witham, and M.L. Hunter Jr. 2016. Climate-driven range shifts are stochastic processes at a local level: two flying squirrel species in Maine. *Ecosphere* 7(2):e01240. 10.1002/ecs2.1240
- Hunter, M., et 18 coauthors. 2016. Two roles for ecological surrogacy: indicator surrogates and management surrogates. *Ecological Indicators* 63:121-125.
- Lindenmayer, D. et 18 coauthors, 2015. A new framework for selecting environmental surrogates. *Science for the Total Environment* 538:1029-1038.
- Beier, P., M.L. Hunter, and M. Anderson. 2015. Conserving nature's stage. *Conservation Biology* 29:613-617.
- Comer, P.J., R. L Pressey, M. L. Hunter, Jr, C. Schloss, S. Buttrick, N. Heller, J. Tirpak, D. P Faith, M. Cross, and M. Shaffer. 2015. Incorporating geodiversity into conservation decisions. *Conservation Biology* 29:692-701.
- Gill, J. L., J. Blois, B. Benito, S. Dobrowski, M. L. Hunter, Jr., and J. McGuire. 2015. A 2.5-million-year perspective on coarse-filter strategies for conserving nature's stage. *Conservation Biology* 29:640-648.
- Hjort, J., J. Gordon, M. Gray, M. L. Hunter, Jr. 2015. Why geodiversity matters in valuing nature's stage. *Conservation Biology* 29:630-639.
- Capps, K.A., R. Rancatti, N.Tomczyk, T. Parr, A. Calhoun, and M.L. Hunter, Jr. 2014. Biogeochemical hotspots in forested landscapes: The role of vernal pools in denitrification and organic matter processing. *Ecosystems* 17:1455-1468.
- Hunter, M.L. Jr., K.H. Redford, and D.B. Lindenmayer. 2014. The complementary niches of anthropocentric and biocentric conservationists. *Conservation Biology* 28:641-645.
- Cline, B.B. and M.L. Hunter, Jr. 2014. Juvenile amphibians discriminate among open-canopy habitats: An experimental investigation of habitat permeability. *Journal of Applied Ecology* 51:319-329.
- Colgan, C. M. L. Hunter, B. McGill, and A. Weiskittel. 2014. Managing the middle ground: Forests in the transition zone between cities and remote areas. *Landscape Ecology* 29:1133-1143
- Calhoun, A., J. Jansuwicz, K. Bell. And M. Hunter. 2014. Improving management of small natural features on private lands by negotiating the science-policy boundary of Maine vernal pools. *Proceedings of the National Academy of Science* 111:11002-11006.
- Calhoun, A.J.K., J. Arrigoni, R.P. Brooks, M.L. Hunter, S.C. Richter. 2014. Creating successful vernal pools: a literature review and advice for practitioners. *Wetlands* 34:1027-1038.

- Politi, N., L. Rivera, L. Lizárraga, M. Hunter, Jr., and G.E. DeFosse. 2014. The dichotomy between protection and logging of an endangered and valuable timber species –conservation of *Amburana cearensis* in northwestern Argentina. *Oryx* 49:111-117.
- Wang, G., N.T. Hobbs, N. A. Slade, J. F. Merritt, L. L. Getz, M. L. Hunter, Jr., S. H. Vessey, J. W. Witham and A. Guillaumet. 2013. Comparative population dynamics of large and small mammals in the Northern Hemisphere: Deterministic and stochastic forces. *Ecography* 36:439-446.
- Politi, N., M.L. Hunter, Jr., and L. Rivera. 2012. Assessing the effects of selective logging on birds in Neotropical piedmont and cloud montane forest. *Biodiversity and Conservation* 21:3131–3155.
- Campbell, S.P., J.W. Witham, and M.L. Hunter Jr. 2012. Long-term changes in spatial distribution of birds responding to a group-selection timber harvest. *Wildlife Society Bulletin* 36:313-327.
- Popescu, V.D., B.S. Brodie, M.L. Hunter, and J. Zydlewski. 2012. Use of olfactory cues by newly metamorphosed wood frogs (*Lithobates sylvaticus*) during emigration. *Copeia* 2012(3): 424–431
- Popescu, V.D., D.A. Patrick, M.L. Hunter, and A.J.K. Calhoun. 2012. The role of forest harvesting and subsequent vegetative regrowth in determining patterns of amphibian habitat use. *Forest Ecology and Management* 270:163-174
- Popescu, V.D. and M.L. Hunter. 2011. Clearcutting affects habitat connectivity for a forest amphibian by decreasing permeability to juvenile movements. *Ecological Applications* 21:1283-1295.
- Lindenmayer, D.B. and M.L. Hunter, Jr. 2010. Some guiding concepts for conservation biology. *Conservation Biology* 24:1459-1468.
- Politi, N., M.L. Hunter, Jr., and L. Rivera. 2010. Availability of cavities for avian cavity nesters in selectively logged subtropical montane forests of the Andes. *Forest Ecology and Management* 260:893-906.
- Hunter, M.L., Jr, E. Dinerstein, J. Hoekstra, and D. Lindenmayer. 2010. Conserving biodiversity in the face of climate change: A call to action. *Conservation Biology* 24:1169-1171.
- Campbell, S.P., J.W. Witham, and M.L. Hunter Jr. 2010. Stochasticity in avian habitat use: a test of deterministic explanations for habitat selection. *Ecological Monographs* 80:287-302.
- Blomquist, S.M., and M.L. Hunter Jr. 2010. A multi-scale assessment of amphibian habitat selection: wood frog response to timber harvesting. *Ecoscience* 17:251-264.
- Strojny, C. A. and M. L. Hunter, Jr. 2010. Comparing relative abundance of amphibians in forest canopy gaps of natural origin vs. timber harvest origin. *Animal Biodiversity and Conservation* 33:1-13.
- Beaudry, F., P. G. deMaynadier. M. L. Hunter, Jr. 2010. Identifying hot moments in road mortality risk for freshwater turtles. *Journal of Wildlife Management* 74:152-159.
- Strojny, C. A. and M. L. Hunter, Jr. 2010. Log diameter influences detection of eastern red-backed salamanders (*Plethodon cinereus*) in harvest gaps, but not in closed-canopy forest conditions. *Herpetological Conservation and Biology* 5:80-85.
- Beaudry, F., P. G. deMaynadier. M. L. Hunter, Jr. 2010. Nesting movements and nest site characteristics of spotted turtles (*Clemmys guttata*) and Blanding's turtles (*Emydoidea blandingii*): Implications for the use of artificial nest sites. *Herpetological Conservation and Biology* 5:1-8.
- Politi, N., M.L. Hunter, Jr., and L. Rivera. 2009. Nest selection by cavity-nesting birds in subtropical montane forests of the Andes: some implications for sustainable forest management. *Biotropica* 41:354-360.
- Lindenmayer, D.B., M.L. Hunter, Jr., P.J. Burton, and P. Gibbons. 2009. Effects of logging on fire regimes in moist forests. *Conservation Letters* 2:271-277.
- Blomquist, S.M. and M.L. Hunter, Jr. 2009. A multi-scale assessment of habitat selection and movement patterns by

- Northern Leopard Frogs (*Lithobates* [*Rana*] *pipiens*) in a managed forest. *Herpetological Conservation and Biology* 4:142-160.
- Beaudry, F., P. G. deMaynadier, M. L. Hunter, Jr. 2009. Seasonally-dynamic habitat use by Spotted (*Clemmys guttata*) and Blanding's Turtles (*Emydoidea blandingii*) in Maine. *Journal of Herpetology* 43:636-645.
- Semlitsch, R.D., S.M. Blomquist, A.J.K. Calhoun, J. W. Gibbons, J.P. Gibbs, G.. Graeter, E.B. Harper, D.. Hocking, M.. Hunter, Jr., D.A. Patrick, T.A.G Rittenhouse, B.B. Rothermel, and B.D. Todd. 2009. Effects of timber management on amphibian populations: understanding mechanisms from forest experiments. *Bioscience* 59:853-862
- Hunter, M.L. Jr., M.J. Bean, D. B. Lindenmayer, and D. S. Wilcove. 2009. Thresholds and the mismatch between environmental laws and ecosystems. *Conservation Biology* 23:1053-1055.
- Wang, G., J. O. Wolff, S. H. Vessey, N. A. Slade, J. W. Witham, J. F. Merritt, M. L. Hunter, Jr., and S.P. Elias. 2009. Comparative population dynamics of *Peromyscus leucopus* in North America: influences of climate, food, and density dependence. *Population Ecology* 51:133-142.
- Sutherland, W.J. et al. 2009. An assessment of the 100 questions of greatest importance to the conservation of global biological diversity. *Conservation Biology* 23:557-567.
- Beaudry, F., P. G. deMaynadier, M.L. Hunter Jr. 2008. Identifying road mortality threat at multiple spatial scales for semi-aquatic turtles. *Biological Conservation* 141:2550-2563.
- Schwartz, M.W., M. L. Hunter, Jr., P. D. Boersma. 2008. Scientific societies in the 21st century: a membership crisis? *Conservation Biology* 22:1087-1089.
- Patrick, D.A., E.B. Harper, M.L. Hunter Jr, and A.J.K. Calhoun. 2008. Terrestrial habitat selection and strong density-dependent mortality in recently metamorphosed amphibians. *Ecology* 89:2563-2574.
- Patrick, D.A., A.J.K. Calhoun and M.L. Hunter Jr. 2008. The importance of understanding spatial population structure when evaluating the effects of silviculture on spotted salamanders (*Ambystoma maculatum*). *Biological Conservation* 141:807-814
- Blomquist, S.M., J.D. Zydlewsk and M.L. Hunter Jr. 2008. Efficacy of PIT tags for tracking the terrestrial anurans *Rana pipiens* and *Rana sylvatica*. *Herpetological Review* 39:174-179.
- Lindenmayer, D. et al. 2008. A checklist for ecological management of landscapes for conservation. *Ecology Letters* 11:78-91.
- Cornelius, C., K. Cockle, N. Politi, I. Berkunsky, L. Sandoval, V. Ojeda, L. Rivera, M.L. Hunter, Jr., and K. Martin. 2008. Cavity-nesting birds in Neotropical forests: cavities as a potentially limiting resource. *Ornitologia Neotropical* 19:253-268.
- Hunter, M.L. 2007. Climate change and moving species: Furthering the debate on assisted colonization. *Conservation Biology* 21:1356-1358.
- Campbell, S.P., J.W. Witham, and M.L. Hunter Jr. 2007. A long-term study on the effects of a selection timber harvest on a forest bird community in Maine. *Conservation Biology* 21:1218-1229.
- Blomquist, S.B. and M. L. Hunter Jr. 2007. Externally attached radio-transmitters have limited effects on the antipredator behavior and vagility of *Rana pipiens* and *R. sylvatica*. *Journal of Herpetology* 41:430-438.
- Patrick, D. A. Calhoun, and M.L. Hunter, Jr. 2007. The orientation of juvenile wood frogs, *Rana sylvatica*, leaving experimental ponds. *Journal of Herpetology* 41:158-163.
- Anderson, M.W. et al. 2007. Attitude changes of undergraduate university students in general education courses. *Journal of General Education* 56: 149-168.

- Elias, S.P., J. W. Witham, and M. L. Hunter, Jr. 2006. Impact of a group-selection timber harvest on a 22-year population fluctuation pattern in *Clethrionomys gapperi*. *Journal of Mammalogy* 87:440-445.
- Perkins, D. W. and M. L. Hunter. 2006. Use of amphibians to define riparian zones along headwater streams in Maine. *Canadian Journal of Forest Research* 36:2124-2130.
- Patrick, D.A., M.L. L. Hunter Jr., and A. J. K. Calhoun. 2006. Effects of experimental forestry treatments on a Maine amphibian community. *Forest Ecology and Management* 234:323-332.
- Perkins, D. W. and M.L. Hunter, Jr. 2006. Effects of riparian timber management on amphibian communities in Maine. *Journal of Wildlife Management* 70:657-670.
- Schulte, Lisa A., R. J. Mitchell, M. L. Hunter, Jr., J. F. Franklin, R. K. McIntyre, and B. J. Palik. 2006. Evaluating the conceptual tools for forest biodiversity conservation and their implementation in the United States. *Forest Ecology and Management* 232:1-11.
- Hunter, M.L. Jr. 2005. A mesofilter complement to coarse and fine filters. *Conservation Biology* 19:1025-1029.
- Elias, S.P., J. W. Witham, and M. L. Hunter, Jr. 2004. Maine *Peromyscus leucopus* abundance and acorn mast: Population fluctuation patterns over 20 years. *Journal of Mammalogy* 85:743-747
- Lindenmayer, D.B., D.R. Foster, J.F. Franklin, M.L. Hunter, R.F. Noss, D. Perry, and F.A. Schmiegelow. 2004. Salvage harvesting policies after natural disturbances. *Science* 303:1303.
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- Hunter, M.L. Jr., A. Calhoun, and D. S. Wilcove. 2004. Goliath Heron fishing with an artificial bait? *Waterbirds* 27:312-313.
- Guerry, A. and M.L. Hunter, Jr. 2002. Amphibian distributions in a landscape of forests and agriculture: An examination of landscape composition and configuration. *Conservation Biology* 16:745-754 .
- Hunter, M.L. Jr. and S. L. Webb. 2002. Enlisting taxonomists to survey poorly known taxa for biodiversity conservation: A lichen case study. *Conservation Biology* 16:660-665.
- DiMauro, D. and M.L. Hunter, Jr. 2002. Reproduction of amphibians in natural and anthropogenic temporary pools in managed forests. *Forest Science* 48:397-406.
- Mitchell, R.J., B.J. Palik, M.L. Hunter, Jr. 2002. Natural disturbance as a guide to silviculture. *Forest Ecology and Management* 155:315-317.
- Perkins, D. W. and M.L. Hunter, Jr. 2002. Effects of placing sticks in pitfall traps on amphibian and small mammal capture rates. *Herpetological Review* 33:282-284.
- Joyal, R., M. McCollough and M.L. Hunter, Jr. 2001. Wetland conservation at a landscape scale: A case study of spotted and Blanding's turtles in southern Maine. *Conservation Biology* 15:1755-1762.
- Noss, R. and M.L. Hunter. 2001. From assemblage to community. *Conservation Biology* 15:1201-1202.
- Plucinski, K.E. and M.L. Hunter, Jr. 2001. Spatial and temporal patterns of seed predation on three tree species in an oak-pine forest. *Ecography* 24:309-317.
- Hunter, M.L. Jr. 2000. Refining normative concepts in conservation. *Conservation Biology* 14:573-574.
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- Joyal, L.A., M. McCollough, and M.L. Hunter, Jr. 2000. Population structure and reproductive ecology of Blanding's turtle (*Emydoidea blandingii*) in Maine near the northeastern edge of its range. *Chelonian Conservation and Biology* 3:580-588.
- Monti, L., M.L. Hunter, Jr. and J. Witham. 2000. An evaluation of the artificial cover object (ACO) method for monitoring populations of the redback salamander (*Plethodon cinereus*). *Journal of Herpetology* 34:624-629.
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- White, A., J. Witham, M.L. Hunter, Jr. and A.J. Kimball. 1999. The relationship between plant species richness and biomass in a coastal Maine *Quercus-Pinus* forest. *Journal of Vegetation Science* 10:755-762.
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- Dibble, A., J.C. Brissette, and Hunter, M.L. Jr. 1999. Putting community data to work: Some understory plants indicate red spruce habitat. *Forest Ecology and Management* 114: 275-291.
- Vickery, P.D., M.L. Hunter, Jr., and J.V. Wells. 1999. Effects of fire and herbicide treatment on habitat selection of grassland birds in southern Maine. *Studies in Avian Biology* 19:149-159.
- deMaynadier, P.G. and M.L. Hunter, Jr. 1998. Effects of silvicultural edges on the distribution and abundance of amphibians in Maine. *Conservation Biology* 12:340-352.
- Hartley, M. and M.L. Hunter, Jr. 1998. A meta-analysis of forest cover, edge effects, and predation rates of artificial nests. *Conservation Biology* 12:465-469.
- Whitman, A.A., M.L. Hunter, Jr. and J. W. Witham 1998. Age distribution of ramets of a forest herb, Wild Sarsaparilla, *Aralia nudicaulis*, (Araliaceae). *Canadian Field-Naturalist* 112:37-44.
- Hunter, M.L. Jr. and A. White. 1997. Ecological thresholds and the definition of old-growth forests. *Natural Areas Journal* 17:292-296.
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- Hunter, M.L. Jr. 1996. Benchmarks for managing ecosystems: Are human activities natural? *Conservation Biology* 10:695-697.
- Hunter, M.L. Jr. 1996. "A desktop reference for conservationists." Book review of R. Paelkhe's "Conservation and environmentalism: An encyclopedia." *Conservation Biology* 10:1477-1478.
- Boone, R., and M.L. Hunter, Jr. 1996. Using diffusion models to simulate the effects of grizzly bear dispersal in the Rocky Mountains. *Landscape Ecology* 11:51-64.
- deMaynadier, P.G. and M.L. Hunter, Jr. 1995. The relationship between forest management and amphibian ecology: a review of the North American literature. *Environmental Reviews* 3:230-261.
- Mugangu, T., M.L. Hunter, Jr., and J. Gilbert. 1995. Food, water, and predation: a model of habitat selection by buffalo in Virunga National Park, Zaire. *Mammalia* 59:349-362.
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- 2013- pr "Of Pools and People: Small natural features with large ecosystem functions in urbanizing landscapes" National Science Foundation, \$1,488,951 (with seven co-PIs)
- 2009-pr "Maine's Sustainability Science Initiative", National Science Foundation, \$20,000,000 (with many co-PIs).
- 1983-pr. *A long-term forest ecosystem study. Holt Woodlands Research Foundation. Ca. \$100,000/year (with A. J. Kimball, A. S. White, and J. W. Witham).
- 2003-2010 Land use practices and the persistence of amphibian populations. National Science Foundation Collaborative project with U Missouri, U Georgia, and SUNY-ESF; U.Maine's portion of budget: \$415,000.
- 2000 Role of canopy gaps and down woody material in maintaining biodiversity in the Acadian Forest of Maine. USDA Competitive Grants. \$260,000. (With R. Wagner and S. Woods).
- 2003 Calibration of Conservation Theory and Principles Applied at Various Geographic Scales National Commission on Science for Sustainable Forestry \$99,725 (with Robert Mitchell, Jerry Franklin, Lisa Schulte, Kevin McIntyre, and Brian Palik).
- 2003 "Effects of Roads on Movements and Mortality of Blanding's and Spotted Turtles in Southern Maine" Maine Department of Transportation , U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Maine Dept Inland Fisheries and Wildlife, The Nature Conservancy \$189,000. (with Phillip deMaynadier),
- 2001 An inquiry-based learning modules for conservation biology education@ National Science Foundation \$998,000 plus (with Eleanor Sterling and James Gibbs)
- 2002 Use of Natural Disturbances to Guide Restoration Silviculture. National Commission on Science for Sustainable Forestry \$199,438 (with Robert Mitchell, Jerry Franklin, and Brian Palik)
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- 1982 *Effects of acid precipitation on the aquatic habitat and ecology of waterfowl and fish. U.S. Fish and Wildlife Service - \$132,434. (with K. E. Gibbs and J. G. Stanley).

- 1982 *A long term environmental monitoring program for the spruce budworm suppression project. Maine Forest Service - \$45,998. (with K. E. Gibbs).
- 1971-81 *Monitoring the indirect effects of spruce budworm suppression, the effects of catastrophic food supply depression on the behavior of birds. Maine Forest Service. \$103,000

*Senior or sole principal investigator.

Public Speaking

Hundreds of presentations in 15 countries, 27 states, and 8 Canadian provinces, mostly on forest biodiversity issues. Some notable talks in recent years:

Managing highly dynamic forests for biodiversity. Keynote address to IUFRO (International Union of Forestry Research Organizations) conference in Braganca Portugal.

Looking backwards to see forward: SCB, conservation biology, and your career. Keynote address to the International Congress for Conservation Biology, New Zealand

Designing refuges to maintain biodiversity in the face of climate change. National Fish, Wildlife and Plants Climate Adaptation Strategy Team, Washington, D.C. and National Conservation Leadership Forum, West Virginia.

“Reaching beyond the choir” and other career lessons from the history of conservation biology. Keynote address to Student Conference for Conservation Science, New York.

Preparing for Climate Change: Forestry and Assisted Colonization. Invited lecture to National Conference of the Forestry Guild, Vermont

Managing forests for biodiversity. The Carlton Owen Distinguished Lecture, College of Forest Resources, Mississippi State University.

Managing forests for wildlife and people: an historical perspective. International Congress for Conservation Biology, Beijing China

"Biodiversity: buzzword or fundamental concept?" Distinguished Lecturer for Science Day. University of Maine at Presque Isle.

Amphibians and forestry: a 19-year retrospective from Maine. University of Connecticut

Teaching

- 1979-pr University of Maine Graduate School. Advisor for 21 Ph.D. and 16 Masters students in Wildlife Ecology. Served on 50 graduate committees in 8 departments.
- 1979-pr University of Maine, Dept. Wildlife Ecology: Advanced Conservation Biology; Conservation Biology; Conservation planning, Forest Wildlife Management; International Conservation; Landscape Ecology and Conservation; Tropical Ecology field course; Introduction to Wildlife Conservation; Wildlife Management Planning; Behavioral Ecology; Photogrammetry (labs); Senior Seminar.
- 1978-79 University of Maine Honors Program: Sophomore seminar; Freshman seminar. Supervised four honor's theses.
- 1986 Wildlife populations and habitat management workshop for Nepali biologists.
- 1978 Oxford University: Introduction to Ecology.

