

ABBREVIATED CURRICULUM VITAE...2022

Richard L. Hutto

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EDUCATION:

B.A. in Zoology, 1971, University of California, Los Angeles.

M.S. in Biology, 1973, Northern Arizona University, Flagstaff.

Thesis title: The coexistence of heteromyid rodents.

Ph.D. in Biology, 1977, University of California, Los Angeles.

Dissertation title: The ecology of migratory wood warblers and the habitat distribution of small migratory landbirds in western Mexico.

PROFESSIONAL HISTORY:

University of Montana—Asst. Prof., 1977-1982; Assoc. Prof., 1982-1987; Prof., 1987-2014;
Professor Emeritus, 2014-present

Connecticut Public Television—Host of “BirdWatch,” a PBS distributed series, 1998-2000

COURSES TAUGHT:

Undergraduate: Montana Wildlife; Ornithology; Field Ornithology; Animal Ecology;
Community Ecology; Avian Census Methods; Field Ecology; Senior Thesis

Graduate: Advanced Ornithology; Advanced Animal Behavior; Evolutionary and Behavioral
Ecology; Avian Ecology; Fire Ecology; Behavioral Ecology Seminar; Ecology Seminar

AREAS OF RESEARCH INTEREST:

My research interests revolve around habitat selection, specifically the factors that determine suitability of sites to landbirds, and the process by which birds choose to settle nonrandomly in space. Most of my research has focused on conifer forest and riparian habitats in the northern Rockies and in northern Mexico. I am especially interested in conifer forests that have been disturbed by recent wildfires and in riparian systems that are subject to a variety of human alterations. In both systems I am asking how vegetation type and structure (as influenced by severe disturbance and concurrent land-use practices) affect distribution patterns and habitat suitability. I am also interested in the dissemination of information beyond publication alone to more effectively encourage the development of management schemes that give priority to maintenance of the ecological systems that sustain us all.

FORMER GRADUATE STUDENT ADVISEES:

1. **Paul D. Hampton**—"The wintering and nesting behavior of the Trumpeter Swan," M.S. in Wildlife Biology, December 1981. [retired; Ashland, Oregon]
2. **Nedra Klein**—"Song variability in the American Redstart (*Setophaga ruticilla*)," M.S. in Zoology, June 1982. [deceased; Professor of Biology, Truman State University]
3. **J. Michael Reed**—"Habitat selection and territory size regulation in the Vesper Sparrow (*Pooecetes gramineus*)," M.S. in Zoology, June 1984. [Professor of Biology, Tufts University]
4. **Nathaniel Shambaugh**—"Nesting ecology of the Townsend's Solitaire (*Myadestes townsendi*)," M.S. in Zoology, June 1986. [Pesticide specialist, VT Department of Agricultural, Food & Markets]
5. **D. Paul Hendricks**—"Foraging ecology of alpine-nesting Water Pipits," M.S. in Zoology, March 1987. [Senior Scientist, Montana Bird Advocacy]
6. **P. Hunt**—"The relationship between western spruce budworm abundance and bird community structure," M.S. in Zoology, August 1989. [Senior Biologist, New Hampshire Audubon]
7. **Amy L. Leider**—"Factors influencing courtship success in male Calliope Hummingbirds (*Stellula calliope*)," M.S. in Zoology, September 1990. [State Public Health Veterinarian, Louisville, Kentucky]
8. **L. Christine Paige**—"Population trends of songbirds in western North America," M.S. in Wildlife Biology, December 1990. [independent wildlife biologist and a science writer, Jackson, WY]
9. **Bret Tobalske**—"Bird populations, logging, and habitat suitability based on fledging success of Red-naped Sapsuckers," M.S. in Zoology, May 1991. [Professor of Biology, University of Montana]
10. **Rebecca S. Burton**—"Red squirrel (*Tamiasciurus hudsonicus*) cache sites and cache pattern in Pattee Canyon, Montana," M.S. in Zoology, May 1991. [Professor of Biology, Alverno College, WI]
11. **Patricia McClelland**—"Ecology of Bald Eagles at Hungry Horse Reservoir, Montana," M.S. in Wildlife Biology, June 1992. [deceased, Retired biologist, West Glacier, MT]
12. **José Fernando Villaseñor**—"The importance of agricultural border strips in the conservation of North American migratory landbirds in western Mexico," M.S. in

Organismal Biology and Ecology, June 1993. [Professor of Biology, Universidad Michoacana de San Nicolás de Hidalgo]

13. **Andrew Bosma**—“Foraging site selection by insectivorous forest birds in western Montana,” M.S. in Organismal Biology and Ecology, December 1993. [Instructor, Department of Biology, University of Wisconsin-Oshkosh]
14. **Michael A. Munts**—“A comparison of bird communities between an untreated control and two timber harvest treatments in western Montana,” M.S. in Wildlife Biology, June 1994. [Biologist, Craters of the Moon National Monument, ID]
15. **Jeffrey S. Marks**—“Ecology of Bristle-thighed Curlews (*Numenius tahitiensis*) in the northwestern Hawaiian Islands,” Ph.D. in Organismal Biology and Ecology, May 1995. [Executive Director, Montana Bird Advocacy]
16. **John R. Hoffland**—“A comparison of bird abundance among selectively logged, old-growth, and mature second-growth ponderosa pine/Douglas-fir stands,” M.S. in Environmental Studies, May 1995. [Medicaid program officer, State of Montana]
17. **Elaine L. Caton**—“Effects of fire and salvage logging on the cavity-nesting bird community in northwestern Montana,” Ph.D. in Organismal Biology and Ecology, December 1996. [independent biologist, Ovando, MT]
18. **Susan M. Hitchcox**—“Abundance and nesting success of cavity-nesting birds in unlogged and salvage-logged burned forest in northwestern Montana,” M.S. in Organismal Biology and Ecology, December 1996. [Executive Director, Maine Lakes]
19. **Jock S. Young**—“Nonlinear bird-habitat relationships in managed forests of the Swan Valley, Montana,” M.S. in Organismal Biology and Ecology, December 1996. [Wildlife Statistician and Research Biologist, Great Basin Bird Observatory, NV]
20. **Vita Wright**—“Multi-scale analysis of Flammulated Owl habitat use: owl distribution, habitat management, and conservation,” M.S. in Organismal Biology and Ecology, December 1996. [Science delivery specialist, Pacific Northwest Research Station]
21. **Sophie A. H. Osborn**—“Factors affecting the distribution and productivity of the American Dipper (*Cinclus mexicanus*) in western Montana: does streamside development play a role?” M.S. in Organismal Biology and Ecology, May 1999. [award-winning natural history author]
22. **Hugh Powell**—“The influence of prey density on post-fire habitat use of the Black-backed Woodpecker,” M.S. in Organismal Biology and Ecology, April 2000. [Science Editor, Cornell Laboratory of Ornithology, NY]
23. **Amy Cilimborg**—“Survival and dispersal of Yellow Warblers in Montana,” M.S. in

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Wildlife Biology, March 2001. [Director, Climate Smart Missoula]

24. **Charles Eldermire**—“A rank-specific, cost-benefit analysis of single- and mixed-species flocking in the Black-capped Chickadee,” M.S. in Organismal Biology and Ecology, December 2001. [Bird Cams Project Leader, Cornell Laboratory of Ornithology, NY]
25. **Crow White**—“The influence of elk management on the Common Raven population in Jackson Hole, Wyoming,” M.S. in Wildlife Biology, December 2002. [Associate Professor, Center for Coastal Marine Sciences, Cal Poly San Luis Obispo]
26. **Karen Short**—“Complexity and variation in the effects of low-severity fires on forest biota: a call for novel approaches to the study of prescribed fires,” Ph.D. in Organismal Biology and Ecology, May 2003. [Research Ecologist, USDA, Rocky Mountain Research Station]
27. **Kristina Smucker**—“Changes in bird abundance and species composition in a coniferous forest following a mixed-severity wildfire,” M.S. in Wildlife Biology, December 2003. [Nongame/T&E Bureau Chief, Montana Fish, Wildlife and Parks]
28. **Fernando Villaseñor**—“Habitat use and the effects of disturbance on wintering birds using riparian habitats in Sonora, Mexico,” Ph.D. in Organismal Biology and Ecology, December 2006. [Professor of Biology, Universidad Michoacana de San Nicolás de Hidalgo]
29. **Bruce Robertson**—“The roles of food and predation in shaping adaptive and maladaptive behaviors in postfire bird species,” Ph.D. in Organismal Biology and Ecology, December 2006. [Associate Professor of Biology, Bard College, NY]
30. **Ty Smucker**—“Patterns of avian nest success and migratory refueling performance in relation to cottonwood riparian habitat structure,” M.S. in Wildlife Biology, December 2007. [Wolf Management Specialist, Montana Fish, Wildlife and Parks]
31. **Aaron Flesch**—Effects of local and landscape processes on animal distribution and abundance,” Ph.D. in Organismal Biology and Ecology, December 2013 [Research Scientist, School of Natural Resources and the Environment, University of Arizona]
32. **Marisa Lipsey**—“Cows and plows: science-based conservation for grassland songbirds in agricultural landscapes,” Ph.D. in Wildlife Biology, May 2015 [USFWS biologist, Glasgow, MT]

PROFESSIONAL AND HONORARY SOCIETIES:

American Ornithologists’ Union—Elective Member, 1985; Fellow, 1995

Association for Fire Ecology

Audubon Society

Cooper Ornithological Society

Ecological Society of America

International Association of Wildland Fire
Society for Conservation Biology

PROFESSIONAL ASSOCIATION SERVICE:

Society for Northwestern Vertebrate Biology—Vice-President, and organizer of Inland Region meetings, 1978-79, 1982-83, 1989-1990; Associate Editor for Ornithology, *Murrelet*, 1983-1987.

American Ornithologists' Union—Annual meeting Session Chair, 1981, 1987, 1995; Membership Committee, 1985; Annual Meeting Co-chair, 1994, Committee on Brewster and Coues Awards, 1995; Associate Editor, *Auk*, 1995-1998.

Cooper Ornithological Society—Board of Directors, 1985-86, 1988-92; Auction Committee Chairman, 1986; Painton Award Committee, 1988; Student Participation Committee Chairman, 1989-1993; Nominating Committee Chairman 1990; Mewaldt-King Award Committee 1993-1995; Annual Meeting Co-chair, 1994; Miller Award Committee, 2002-2003, 2008-2009.

Wilson Ornithological Society—Annual Meeting Co-chair, 1994.

Montana Natural History Center—Board of Directors, 1990-1992.

National Science Foundation—Ecology Panel Member, 1990, 2007; Conservation and Restoration Ecology Panel (declined), 1990.

Consulting Editor—Studies in Avian Biology, 1990, 1995.

Neotropical Migratory Landbird Conservation Program—Member, USFS Region I Steering Committee, 1990-1991; Vice-chair, National Research Working Group, 1993-1994.

The Nature Conservancy—Board of Trustees, Montana Chapter 2004-2007.

Past and continuing reviewer of manuscripts and proposals for *American Naturalist*, *Animal Conservation*, *Avian Conservation and Ecology*, *Auk*, *Behaviour*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Biodiversity and Conservation*, *Biological Conservation*, *Bioscience*, *Biotropica*, *Bulletin of Marine Science*, The Canada Council, *Journal of Avian Biology*, *Canadian Field Naturalist*, *Canadian Journal of Forest Research*, *Canadian Journal of Zoology*, *Condor*, *Conservation Biology*, *Ecography*, *Ecology*, *Ecological Monographs*, *Ecological Applications*, *Environmental Management*, *Fire Ecology*, *Forest Ecology and Management*, *Forest Science*, Grand Canyon Monitoring and Research Center, *Great Basin Naturalist*, *Ibis*, *International Journal of Wildland Fire*, *Journal of Applied Ecology*, *Journal of Avian Biology*, *Journal of Environmental Management*, *Journal of Field Ornithology*, *Journal of Mammalogy*, *Journal of Tropical Biology*, *Journal of Wildlife Management*, *Landscape Ecology*, *Memoirs of the California Academy of Science*, *Montana Outdoors*, National Fish and Wildlife Foundation, National Geographic Society, National Park Service, National Science Foundation, *Natural Areas Journal*, *Northwest Science*, *Northwestern Naturalist*, *Oecologia*, *Oikos*, *Proceedings of the Montana Academy of Sciences*, *Proceedings of the National Academy of Sciences*, *Science*, *Rangeland Ecology*, Smithsonian Institution, *Southwestern Naturalist*, *Studies in Avian Biology*, USDA Forest Service, USDI Fish and Wildlife Service, Wildlife Conservation Society, *Wildlife Society Bulletin*, *Wilson Bulletin*, World Wildlife Fund.

RESEARCH PROJECT GRANTS:

- 1975—\$600 from Frank M. Chapman Memorial Fund of the American Museum for studies of the migration ecology of western wood warblers.
- 1975, 1977—\$1,000 from University of California Regents' Research Grant and University of California Graduate Student Patent Fund for studies of the migration ecology of western wood warblers.
- 1975—\$600 from University of Wyoming, Jackson Hole Research Station for studies of the migration ecology of western wood warblers.
- 1978—\$3,800 from University of Montana, Research Advisory Council for studies of avian foraging behavior in relation to food availability.
- 1979-1981—\$20,000 from USDI Fish and Wildlife Service for study of riparian bird communities in western Montana.
- 1983-1985—\$35,500 from World Wildlife Fund-U.S./Smithsonian Institution for study of distributional ecology of migratory landbirds in Mexico.
- 1986-1988—\$6,500 from McIntire-Stennis Coop. Forestry Research Grant for studies of trends in populations of migratory birds in Montana, and effects of timber harvesting on bird communities.
- 1986, 1988—\$22,100 from NSF-MONTS for studies of distribution and foraging behavior of forest birds in relation to spruce budworm density.
- 1989-1991—\$25,000 from National Geographic Committee for Research and Exploration for study of bird distribution in relation to the landscape context of forest fires.
- 1990-1993—\$186,385 from National Fish and Wildlife Foundation for study of land use effects on migratory landbirds in western Mexico.
- 1991-1992—\$50,980 from USDA Forest Service for modeling population trends of western neotropical migrant birds.
- 1991-1992—\$13,000 from USDA Forest Service for study of monitoring methods for neotropical migrants.
- 1991-1992—\$9,900 from USDA Forest Service for bird monitoring study on the Clearwater National Forest.
- 1992-1994—\$57,600 from National Park Service for study of response of cavity-nesting birds to the 1988 fires in Glacier National Park.
- 1992—\$3,400 from Bureau of Land Management for study of distribution patterns of riparian birds on Hoodoo Mountain, Montana.
- 1991-1994—\$235,075 from USDA Forest Service for modeling habitat distribution and monitoring neotropical migratory birds in Region I.
- 1994-1996—\$33,000 from USDA Forest Service for multi-scale analysis of habitat use by Flammulated Owls in the Bitterroot Mountains, Montana.
- 1995-1996—\$14,000 from McIntire-Stennis Cooperative Forestry Research Program to study “Abundance and nest success of cavity-nesting birds in salvage-logged and uncut patches within a burned forest on the Blackfoot-Clearwater Game Range, Montana.”
- 1995-1996—\$151,979 from USDA Forest Service for modeling habitat distribution and monitoring neotropical migratory birds in Region I.
- 1995—\$5,000 from USDI Bureau of Land Management to supplement the USDA Forest Service-funded project on monitoring migratory songbirds.
- 1995—\$5,000 from Plum Creek Timber Company to supplement the USDA Forest Service-funded project on monitoring migratory songbirds.

- 1996-1997—\$75,000 from USDA Forest Service for continuing support of project on “Monitoring population trends and habitat use of neotropical migratory landbirds in Region I.”
- 1996—\$5,000 from USDI Bureau of Land Management to supplement the USDA Forest Service-funded project on monitoring migratory songbirds
- 1997—\$18,000 from USDA Forest Service for analysis of tradeoffs associated with alternative monitoring protocols.
- 1997-2002—\$499,271 from USDA Forest Service for monitoring population trends and habitat use of neotropical migratory landbirds in Region I.
- 1998—\$40,000 from National Fish and Wildlife Foundation for support of the Northern Region Landbird Monitoring Program.
- 1998-2000—\$12,273 from USDI National Park Service for project on “Effects of management-ignited prescribed fire on birds in Saguaro National Park, Arizona.”
- 1998-2001—\$75,000 from National Park Foundation for support of Karen Short as a Canon-National Parks Science Scholar.
- 1998-1999—\$59,508 from USDA-CSREES Strengthening Award for support of “Effects of fire on wildlife populations: a synthesis of literature and a field investigation.”
- 2000-2001—\$6,897 from USDI National Park Service in support of an investigation of “The effects of surface fires on birds and arthropods in southwestern ponderosa pine forests: an experimental approach.”
- 2000-2001—\$77,632 from National Science Foundation for support of “Central computer network at the University of Montana Field Research Station at Fort Missoula,” Ken Dial, Erick Greene, Tom Martin, and Richard Hutto, co-PIs.
- 2000-2001—\$3,750 from USDA Forest Service, Rocky Mountain Research Station for study on “Use of dispersal to refine survival estimates in Yellow Warblers.”
- 2002-2005—\$400,000 from PPL-Montana for “A study of the distribution, nest success, and physiological condition of birds in relation to vegetation structure and land use along the Missouri and Madison river corridors.”
- 2002-2005—\$100,000 from Bureau of Land Management for “A study of the distribution, nest success, and physiological condition of birds in relation to vegetation structure and land use along the Missouri and Madison river corridors.”
- 2003-2008—\$521,669 from USDA Forest Service for agreement to conduct landbird monitoring and develop educational opportunities at the University of Montana.
- 2003-2005—\$99,813 from MT Department of Environmental Quality/EPA Wetland Program for “Assessing the Biological Integrity of Wetlands in Montana using Bird Communities.”
- 2003-2006—\$343,750 from USFS-RMRS for study of “Patterns of plant, bird, amphibian, and small mammal occurrence in salvage-logged and unsalvaged burned conifer forests in the Bitterroot Valley, Montana” (with L. Marcum, K. Foresman and P. Alaback)
- 2003-2005—\$85,000 from Montana Fish, Wildlife and Parks for “Montana bird conservation partnership.”
- 2003-2007—\$10,500 from Plum Creek Timber Company for helping to develop an integrated bird monitoring program.
- 2004-2005—\$10,000 from Great Basin Bird Observatory to aid in the “establishment of a coordinated bird monitoring program in Montana.”

- 2004-2007—\$325,000 from Joint Fire Sciences Program to study “The influence of local and landscape conditions on the occurrence and abundance of Black-backed Woodpeckers in burned forest patches,” (Deb Austin and Sallie Hejl, co-PIs).
- 2004-2007—\$50,000 from USDI Fish and Wildlife Service for study of bird distribution and indicators of bird health in relation to riparian bottomland conditions in Sonora, Mexico.
- 2005—\$8,036 from Montana Natural History Center for development of a “Wildland Fire Education Program.”
- 2004-2005—\$10,000 from Bureau of Land Management for development of web site for the Montana Birding and Nature Trail.
- 2006-2008—\$78,715 from PPL-Montana to evaluate the success of a habitat restoration project on the Madison River, MT.
- 2006-2008—\$50,000 from National Park Service (Glacier NP) to conduct bird survey work in association with JFSP-sponsored fire research.
- 2006—\$4,598 from Montana Fish, Wildlife & Parks for conducting education about river restoration via a bird-banding station at Beavertail Hill State Park.
- 2006—\$3,011 from Montana Fish, Wildlife & Parks for conducting bird survey in association with a multi-agency Big Hole River restoration project.
- 2006-2007—\$24,995 from MT Department of Justice-NRDP for a “Bird’s-eye view riparian watershed education program” to be conducted in the Clark Fork River basin.
- 2006-2008—\$68,000 from The Nature Conservancy for development of the “Koeys Watershed Monitoring Project.”
- 2006-2010—\$496,198 from USDA-CSREES for “Novel use of a landbird database to inform management” (with Rob Fletcher, Co-PI).
- 2007-2009—\$10,000 from Montana Fish, Wildlife & Parks, 2007 to conduct a project on “Flammulated Owls and citizen science monitoring.”
- 2007—\$5,000 from Montana Fish, Wildlife & Parks for “Flammulated Owls and citizen science monitoring.”
- 2007-2009—\$50,000 from PPL-Montana for “evaluating the presence and persistence of birds along previously surveyed portions of the Missouri River corridor.”
- 2007-2009—\$25,000 from Big Hole Watershed Committee, USFWS, and MTFWP for the use of birds to assess restoration success in the Big Hole Valley, MT.
- 2008-2009—\$71,000 from PPL-Montana for “evaluating the restoration success on O’Dell Creek of the Madison River.”
- 2007-2009—\$25,000 from Big Hole Watershed Committee, USFWS, and MTFWP for the use of birds to assess restoration success in the Big Hole Valley, MT.
- 2008-2013—\$127,000 from Bureau of Land Management for “Upper Missouri Bird Inventory in Montana”
- 2008-2013—\$395,000 from USDA Forest Service (#03-CR-11015600-007) for agreement to conduct landbird monitoring and develop educational opportunities at the University of Montana.
- 2008-2009—\$71,000 from PPL-Montana for “evaluating the restoration success on O’Dell Creek of the Madison River.”
- 2008-2009—\$27,000 from The Nature Conservancy for the Koeys Watershed Monitoring Project.

- 2008-2010—\$20,000 from the Big Hole Watershed Committee and the USFWS Arctic Grayling Recovery Program for “Upper Big Hole River avian monitoring: evaluating habitat restoration.”
- 2008-2013—\$48,900 from National Park Service-CESU for investigating the “Distribution and status of breeding birds in the sky islands of northern Sonora.”
- 2009-2010—\$31,000 from PPL-Montana for “evaluating the presence and persistence of birds along previously surveyed portions of the Missouri River corridor.”
- 2009-2010—\$23,985 from Montana Fish, Wildlife and Parks for “Clark Fork Diversity Monitoring Project.”
- 2009-2010—\$27,492 from MTDOJ-NRDP for “Bird’s-eye view of the Clark Fork River Basin.”
- 2010-2011—\$100,000 from MTDOJ-NRDP for “Bird’s-eye view of the Upper Clark Fork River Basin” (Erick Greene and Heiko Langner, co-PIs).
- 2010-2011—\$36,000 from PPL-Montana for “Habitat-Based Modeling of Riparian Bird Communities: Prioritizing Restoration and Evaluating Land Use on the Missouri-Madison Rivers.”
- 2011-2012—\$70,000 from the MPG Ranch for bird banding and riparian education program.
- 2011-2013—\$19,216 from Montana Fish, Wildlife and Parks for Montana Landbird Monitoring.
- 2011-2013—\$189,810 from USDI Fish and Wildlife Service for “Restoration and identification of priority habitats for neotropical migratory birds in the Madrean Sky Islands, northwest Mexico” (Aaron Flesch, co-PI).
- 2011-2013—\$64,545 from Institute for Wetland and Waterfowl Research for “IWJV Administration and Cooperation: Grid-Based Monitoring.”
- 2012-2013—\$175,000 from Montana Tech for “Bird banding and education in the Clark Fork River basin.”
- 2012-2013—\$20,000 from PPL-Montana for “Habitat-Based Modeling of Riparian Bird Communities.”
- 2012-2013—\$33,000 from Ducks Unlimited for “Grid-based bird monitoring in Montana.”
- 2012-2013—\$31,000 from USFWS for “Distribution, Abundance and Habitat of Madrean Breeding Birds in the Northern Sierra Madre Sky Islands” (Aaron Flesch, co-PI).
- 2012-2013—\$88,629 from MPG Ranch for “Bird banding and analysis of spatial patterns of use of the MPG Ranch.”
- 2012-2013—\$7,714 from MT Department of Justice for “Bird Banding at Mt Haggin, MT.”
- 2012-2013—\$17,546 from MT Tech for “Milltown Dam Education Program.”
- 2012-2013—\$94,274 from MT Tech for “Bird’s-eye View Education Program.”
- 2012-2017—\$1,200,000 from NSF for “Learning Assistants Become Teachers (LABT)” (David Erickson, co-PI).
- 2013-2015—\$20,000 from National Geographic for “Using a geographically broad chronosequence approach to understand the effects of wildfire and anthropogenic disturbance on fire-dependent bird species.”

PRESENTATIONS AT MEETINGS, WORKSHOPS, AND SYMPOSIA:

(roughly 2 per year for 40 years; 20 by invitation)

PUBLICATIONS:

117. Hua et al. 2022. Ecological filtering shapes biodiversity impacts of agricultural

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deforestation. *ScienceAdvances*, in review.

116. Hutto, R. L. 2021. Fire and climate change: a comment. *Frontiers in Ecology and the Environment* 19(2):86-87. [PDF](#)

115. Hutto, R. L. 2021. Factors affecting the number of arms on a saguaro (*Carnegiea gigantea*). *Southwestern Naturalist* 65(2):131-135. [PDF](#)

114. Thorn, S., A. Chow, K. B. Georgiev, J. Müller, C. Bäessler, J. L. Campbell, J. Castro, Y.-H. Chen, C.-Y. Choi, T. P. Cobb, D. C. Donato, E. Durska, E. Macdonald, H. Feldhaar, J. B. Fontaine, P. J. Fornwalt, R. M. H. Hernández, R. L. Hutto, M. Koivula, E.-J. Lee, D. Lindenmayer, G. Mikusiński, M. K. Obrist, M. Perlik, J. Rost, K. Waldron, B. Wermelinger, I. Weib, M. Żmihorski, A. B. Leverkus. 2020. Estimating retention benchmarks for salvage logging to protect biodiversity. *Nature Communications* 11(1):1-8. [PDF](#)

113. Hutto, R. L., and R. R. Hutto. 2020. Does the presence of an observer affect a bird's occurrence rate or its singing rate during a point count? *Journal of Field Ornithology* 91(2):214-223. [PDF](#)

112. Hutto, R. L. 2020. Can patterns of habitat use by western Nearctic-Neotropical migratory landbirds in winter inform conservation priorities? *Wilson Journal of Ornithology* 132(1):45-60. [PDF](#)

111. Georgiev, K. B., A. Chao, J. Castro, Y.-H. Chen, C.-Y. Choi, J. B. Fontaine, R. L. Hutto, E.-J. Lee, J. Müller, J. Rost, M. Żmihorski and S. Thorn. 2020. Salvage logging changes the taxonomic, phylogenetic and functional successional trajectories of forest bird communities. *Journal of Applied Ecology* 57(6):1103-1112. [PDF](#)

110. Hutto, R. L., R. R. Hutto, and P. L. Hutto. 2020. Patterns of bird species occurrence in relation to anthropogenic and wildfire disturbance: management implications. *Forest Ecology and Management* 461:117942. [PDF](#)

109. Thorn, S., C. Bäessler, R. Brandl, P. J. Burton, R. Cahall, J. L. Campbell, J. Castro, C.-Y. Choi, T. Cobb, D. C. Donato, E. Durska, J. B. Fontaine, S. Gauthier, C. Hebert, T. Hothorn, R. L. Hutto, E.-J. Lee, A. B. Leverkus, D. B. Lindenmayer, M. K. Obrist, J. Rost, S. Seibold, R. Seidl, D. Thom, K. Waldron, B. Wermelinger, M.-B. Winter, M. Żmihorski, and J. Müller. 2018. Impacts of salvage logging on biodiversity – a meta-analysis. *Journal of Applied Ecology* 55:279-289. [PDF](#)

108. DellaSala, D. A., R. L. Hutto, C. T. Hanson, M. L. Bond, T. Ingalsbee, D. Odion, and W. L. Baker. 2017. Accommodating mixed-severity fire to restore and maintain ecosystem integrity, with a focus on the Sierra Nevada of California, USA. *Fire Ecology* 13(2):148-171. [PDF](#)

107. Hutto, R. L. 2017. Reply to Marques et al. (2017): how to best handle potential

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detectability bias. *Ecological Applications* 27(5):1699-170. [PDF](#)

106. Hutto, R. L., and D. A. Patterson. 2016. Positive effects of fire on birds may appear only under narrow combinations of fire severity and time-since-fire. *International Journal of Wildland Fire* 25:1074-1085. [PDF](#)

105. Hutto, R. L. 2016. Should scientists be required to use a model-based solution to adjust for possible distance-based detectability bias? *Ecological Applications* 26:1287-1294. [PDF](#)

104. Hutto, R. L., R. E. Keane, R. L. Sherriff, C. T. Rota, L. A. Eby, and V. A. Saab. 2016. Toward a more ecologically informed view of severe forest fires. *Ecosphere* 7:Article e01255. [PDF](#)

103. Schoennagel, T., P. Morgan, J. Balch, P. Dennison, B. Harvey, R. Hutto, M. Krawchuk, M. Moritz, R. Rasker, and C. Whitlock. 2016. Insights from wildfire science: A resource for fire policy discussions,1-9. [PDF](#)

102. Hutto, R. L., M. L. Bond, and D. A. DellaSala. 2015. Using bird ecology to learn about the benefits of severe fire. Pages 55-88 in D. A. DellaSala and C. T. Hanson, editors. *The ecological importance of mixed-severity fires: nature's phoenix*. Elsevier. [PDF](#)

101. Hanson, C. T., R. L. Sherriff, R. L. Hutto, D. A. DellaSala, T. T. Veblen, and W. L. Baker. 2015. Setting the stage for mixed- and high-severity fire. Pages 3-22 in D. A. DellaSala and C. T. Hanson, editors. *The ecological importance of mixed-severity fires: nature's phoenix*. Elsevier, Amsterdam, Netherlands. [PDF](#)

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