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Areas of Expertise

- working lands conservation
- climate stewardship
- environmental education and citizen science
- habitat connectivity

Education

Ph.D., University of Rochester, Department of Biology, 1993
Visiting graduate student, Princeton University, Department of Ecology and Evolutionary Biology, 1990-1993

M.S., University of California, San Diego, Department of Ecology and Evol. Biology, 1986

B.A., Biology, University of California, San Diego, 1985

Employment

Cooperative Extension Specialist and Adjunct Professor
Environmental Science, Policy, and Management Department
University of California, Berkeley

Post-doctoral Fellow, Center for Conservation Biology, Dept. of Biological Sci, Stanford University, 1993-1995

Section of Grants

USDA Forest Service, 2000
National Science Foundation, 2001-2003
Environmental Protection Agency NCER STAR, 2002-2004
Environmental Protection Agency NCER STAR, 2005-2008
The Nature Conservancy 2006-2009
Sonoma County Water Agency 2007-2009
Cal-Fed Science Grant 2008-2011
National Science Foundation 2011-2013
Army Corps of Engineers 2011-2013
CONOCIT Chile & Latin Am. Studies 2014
California Landscape Cooperative 2016-2018
California 4th Climate Change Assessment (California Resources Agency) 2016-2018
Save the Redwoods League 2018-2021

Honors and Professional Service

California Academy of Sciences Fellow, 2018
President, Society for Conservation Biology (2019-2021)
Program of the Year, 2015, California Naturalist Program, by Alliance for Natural Resource Outreach and Service Programs
Distinguished service award for outstanding extension work UCANR (2016)
Handling Editor, Journal, Conservation Biology
Section Editor, PlosOne
UC California Naturalist Program Director
Visiting Scholar, University of Queensland, Dept. of Zoology, Australia, 2004 (12 months)
Visiting Scholar, Centro de Investigaciones en Ecosistemas (CIEco), UNAM, Mexico City, 2008 (6 months)
Visiting Scholar, Cambridge Conservation Initiative, Dept. of Zoology, Univ of Cambridge 2019 (6 months)

Distinguished Academic Speaking Engagement, Recent Highlights

Department Seminar, Centre for Environmental Policy at Imperial College London “Climate-wise connectivity, practice, and public participation in resilience” March 7, 2019

Conservation Science Masters Lecture Series, Silwood Park, Imperial College “Bridging the gap between connectivity science and practice.” March 6 2019

Cambridge Conservation Initiative Lecture Series, University of Cambridge “Climate resilience through science, practice, and public participation” January 23, 2019

Zoology Departmental Seminar, Tel Aviv University, Israel “Climate-wise connectivity for resilience landscapes: Methods and Application” December 6, 2017

Forest and Wildlife Ecology Department Seminar, University of Wisconsin-Madison “Corridors for wildlife movement and climate change adaptation: where theory meets practice.” November, 2015

Bioneers Speaker I was invited to speak on habitat connectivity at the 2013 Bioneers conference. Over 200 people were in the audience. “For 25 years, the National Bioneers Conference has connected thousands of people with practical, visionary solutions for humanity's most pressing environmental and social challenges.” October 19, 2013

Ramat Hanadiv Seminar Series Speaker, Israel This private institute has a very large science center with full time ecologists and conservation biologists. They are renown throughout the world and often bring international speakers and advisors to the area. My talk was titled, “Vinecology: Addressing habitat, water & wildlife conservation across the vineyard landscape.” June 2013

Plenary Speaker, North Coast Forest Conservation Conference “Environmental impacts that can result from vineyard development and management.” June 6, 2011

Plenary Speaker, North Bay Climate Action Initiative Science Symposium I gave a talk on habitat connectivity in the North Bay region at this science symposium for the general public and environmental interest groups. Jne 14, 2011

Brandt Lecture Series, North Carolina State University I was selected as the Brandt lecturer which is an annual invited lecture series at North Carolina State University where the speaker is selected by the graduate students in Zoology and Natural Resources. March 3, 2011

UC Santa Cruz Environmental Science Department Seminar “Habitat Connectivity Planning for Community Persistence” May 3, 2010

Plenary Speaker, UC ANR Natural Resources Continuing Conference “Demography and land use in California: Today and tomorrow” June 28, 2010

Landscape Architecture Department Seminar Speaker, UC Davis “Water management in a vineyard landscape” October 15, 2010

Universidad Nacional Autónoma de México Instituto de Investigaciones en Ecosistemas y Sustentabilidad, Institute seminar series “Habitat connectivity and landscape permeability” February 24, 2009

9th National Conference on Science, Policy and the Environment Biodiversity in a Rapidly Changing World, Washington DC I spoke on land-use change and helped identify future research priorities related to protected area planning and private land conservation. December 8, 2008

UC Water Center Seminar Series, UC Berkeley “Coupled natural and human system modeling for environmental problem solving: watershed decision support tools for stream flow and species recovery, and enhanced water security.” November, 2008

Geography Department Seminar, University of Queensland. This Geography Department Seminar covered all of my lab’s research on watershed science and limiting factors to salmonoid recovery and was given as part of a seminar series in Geography. October 20, 2008

Hydrobiology Seminar Series, Université Lyon, France “Environmental Flows and salmonoid conservation in vineyard landscapes” October 17, 2007

Scientific Publications

MERENLENDER, A with BULER, B. 2021 “Climate Stewardship: Taking Collective Action to Protect California” UC Press 290 Pages 324 ISBN: 9780520378940

GRAY, M. MICHELI, E, COMENDANT, T. and MERENLENDER, A 2020 A. Climate-Wise Habitat Connectivity Takes Sustained Stakeholder Engagement. *Land* 2020, 9, 413.

GRAY, M. MICHELI, E, COMENDANT, T. and MERENLENDER, A 2020 Quantifying Climate-Wise Connectivity across a Topographically Diverse Landscape. *Land* 9:355

MUÑOZ-SÁEZ, A., KITZES, J. and MERENLENDER, A.M 2020 Bird friendly wine country through diversified vineyards. *Conservation Biology* 35(1):274-284

MUÑOZ-SÁEZ, A., HEATON, E., REYNOLDS, M. and MERENLENDER, A.M. 2020 Agricultural adapters from the vineyard landscape impact native oak woodland birds. *Agriculture, Ecosystems and Environment*, 300:106960

ELSEN, P.R., MONAHAN, W.B., and A.M. MERENLENDER 2020 Topography and human pressure in mountain ranges alter expected species responses to climate change. *Nature Communications* 11, 1974

ELSEN, P.R., MONAHAN, W.B., DOUGHERTY, E.R. and A.M. MERENLENDER 2020 Keeping pace with climate change in global terrestrial protected areas. *Science Advances*, 6 : eaay0814

HILTY, J. A., KEELEY, A., LIDICKER, W. Z., and, A. M. MERENLENDER. 2019 Corridor Ecology: Linking landscapes for biodiversity conservation and climate adaptation. Island Press, Washington DC pp. 338

LARSON, C.L., REED, S.E., MERENLENDER, A.M., and CROOKS, KR. 2019 A meta-analysis of recreation effects on vertebrate species richness and abundance. *Conservation Science and Practice*. 2019;e93.
<https://doi.org/10.1111/csp2.93>

COOPER, O, KEELEY, A, and MERENLENDER, A. 2019 Curriculum gaps for adult climate literacy. *Conservation Science and Practice*.e102. <https://doi.org/10.1111/csp2.102>

KREMEN, C. and MERENLENDER, A.M. 2018 Making landscapes that work for biodiversity and people in the Anthropocene, *Science* 362 304 eaau6020

KEELEY, A. T., BASSON, G. , CAMERON, D. R., HELLER, N. E., HUBER, P. R., SCHLOSS, C. A., THORNE, J. H. and MERENLENDER, A. M. 2018 Making habitat connectivity a reality. *Conservation Biology*. 32(6): 1221-1232

KEELEY, A., ACKERLY, D., CAMERON, D.R., HELLER, N., HUBER, P., SCHLOSS, C., THORNE, J., and MERENLENDER, A. 2018 New concepts, models, and assessments of climate-wise connectivity *Environmental Research Letters* 13 073002

ELSEN, P.R., MONAHAN, W.B., and A.M. MERENLENDER 2018 Global patterns of protection of elevational gradients in mountain ranges. *Proceedings of the National Academy of Sciences* Jun 2018, 115 (23) 6004-6009

ELSEN, P.R., MONAHAN, W.B., and A.M. MERENLENDER 2018 The World Database on Protected Areas is an invaluable resource for global conservation assessments and planning. *Proceedings of the National Academy of Sciences* September 2018 115(39):E9029-E9030

LARSON, C.L. REED, S.E., MERENLENDER, A.M. and K.R. CROOKS 2018 Accessibility drives species exposure to recreation in a fragmented urban reserve network. *Landscape and Urban Planning* 175:62-71

LARSON, C.L. REED, S.E., MERENLENDER, A.M. and K.R. CROOKS 2017 Effects of Recreation on Animals Revealed as Widespread through a Global Systematic Review *PLoS ONE* 11(12): e0167259

CHAPPLE, D.E., FABER, P, SUDING, K.N. and MERENLENDER, A.M. 2017 Climate Variability Structures Plant Community Dynamics in Mediterranean Restored and Reference Tidal Wetlands. *Water* 9(3), 209

MARTÍNEZ-HARMS, M. J., QUIJAS, S., MERENLENDER, A. M., and P. BALVANERA 2016 Enhancing ecosystem services maps combining field and environmental data. *Ecosystem Services*. 22:32-40

MERENLENDER, CRALL, A.W., DRILL, S., PRYSBY, M. and H. BALLARD 2016 Evaluating environmental education, citizen science, and stewardship through naturalist programs. *Conservation Biology* 30(6) 1255-1265

KELLY, R.M., KITZES, J., WILSON, H. and A.M. MERENLENDER 2016. Habitat diversity promotes bat activity in a vineyard landscape. *Agriculture, Ecosystems and Environment* 223:175-181

GRAY, M., WILMERS, C.C., REED, S. E., and A. M. MERENLENDER 2016. Landscape feature-based permeability models relate to puma occurrence. *Landscape and Urban Planning* 147:50-58.

MERENLENDER, A.M., ACKERLY, D., SUDING, K., SHAW, R. and E. ZAVELETA. 2015 Chapter 41: Stewardship, Conservation, and Restoration in the Context of Environmental Change. California Ecosystems UC Press

MATELLA, M.K. and A. M. MERENLENDER 2015 Scenarios for Restoring Floodplain Ecology Given Changes to River Flows Under Climate Change: Case from the San Joaquin River, California. *River Research and Applications* 31(3): 280-290

KITZES J. and A.M. MERENLENDER 2014 Large Roads Reduce Bat Activity across Multiple Species. *PLoS ONE* 9(5): e96341. doi:10.1371/journal.pone.0096341

DEITCH, M.J. & MERENLENDER, A.M. and S. FEIRER 2013 Cumulative Effects of Small Reservoirs on Streamflow in Northern Coastal California Catchments. *Water resources management* 27(15): 5101-5118.

MERENLENDER A. and M. MATTELLA 2013 Maintaining and restoring hydrologic habitat connectivity in mediterranean streams: an integrated modeling framework. *Hydrobiologia* 719(1):509-525.

KITZES, J. and MERENLENDER, A. 2013 Extinction risk and tradeoffs in reserve site selection for species of different body sizes. *Conservation Letters*, 6: 341–349. doi: 10.1111/conl.12015

VIERS, J.H., J.N. WILLIAMS, K.A. NICHOLAS, O. BARBOSA, I.KOTZÉ, L. SPENCE, L.B. WEBB, A.M. MERENLENDER, AND MARK REYNOLDS. 2013 "Vinecology: pairing wine with nature." *Conservation Letters* 6, no. 5: 287-299.

GRANTHAM, T. E., MEZZATESTA, M., NEWBURN, D. A., and MERENLENDER, A. M. 2014 Evaluating tradeoffs between environmental flow protections and agricultural water security. *River Research and Applications*, 30(3), 315-328.

DE NEVERS, G., EDELMAN, D.S., and A. M. MERENLENDER 2012 “The California Naturalist Handbook” UC Press ISBN: 9780520274808 280 pages.

RUDNICK, D.A., RYAN, S., BEIER, P., SAMUEL CUSHMAN, FRED DIEFFENBACH, CLINTON W. EPPS, LEAH GERBER, JOEL HARTTER, JEFF JENNESS, JULIA KINTSCH, ADINA M. MERENLENDER, RYAN M. PERKL, DAMIAN V. PREZIOSI, AND STEPHEN C. TROMBULAK 2012 The Role of Landscape Connectivity in Planning and Implementing Conservation and Restoration Priorities. Teaching Issues and Experiments in Ecology Issue 16 http://www.esa.org/science_resources/issues/FileEnglish/issuesinecology16.pdf

GRANTHAM, T. E., NEWBURN, A. D., McCARTHY, M. A., and A. M. MERENLENDER 2012 The role of stream flow and land use in limiting over-summer survival of juvenile steelhead trout in California streams . Transactions of the American Fisheries Society 141:585–598, 2012

BUGG, R. L., GIUSTI, G. MERENLENDER, A. M., HARRISON, S. P., MCGOURTY, AND K. BAUMGARTNER 2011 Biodiversity, Habitat , and Natural Resource Issues in Winegrape Production In “Organic Winegrowing Manual” Pp. 155-177 Editor Glenn T. McGourty UC ANR Publication 3511.

REED, S. E. and A. M. MERENLENDER 2011 Effects of management of domestic dogs and recreation on carnivores in protected areas in northern California. Conservation Biology 25(3):504-513

GRANTHAM, T. E., A. M. MERENLENDER and V. H. RESH 2010 Climatic Influences and Anthropogenic Stressors: An integrated framework for stream-flow management in mediterranean-climate California, USA. Fresh Water Biology 55(10):188-204.

CHRISTIAN-SMITH J. and A. M. MERENLENDER 2010 The Disconnect Between Restoration Goals and Practices: A Case Study of Watershed Restoration in the Russian River Basin, California Restoration Ecology 18(1):95-102.

LOHSE, K.A. and A.M. MERENLENDER. 2009 Impacts of exurban development on water quantity and quality. Pp 159-180 In *The Planner's Guide to Natural Resource Conservation: The Science of Land Development Beyond the Metropolitan Fringe*, edited by Adrian X. Esparza and Guy McPherson. New York, Springer.

BYRD, K. B., RISSMAN, A. R. and A. M. MERENLENDER. 2009 Impacts of conservation easements for threat abatement and fire management in a rural oak woodland landscape. Landscape and Urban Planning 92:106-116

MERENLENDER, A. M., NEWBURN, D., REED, S. E. and RISSMAN, A. 2009 The importance of incorporating threat for efficient targeting and evaluation of conservation investments. (Response to Underwood et al. “Evaluating conservation spending for species return: A retrospective analysis in California”) Conservation Letters: 240–241

MERENLENDER, A. M., S. E. REED, K. L. HEISE 2009 Exurban Development Influences Woodland Bird Composition. Landscape and Urban Planning, Landscape and Urban Planning 92:255-263

MERENLENDER, A. M. and M. DEITCH 2008 Decision support tool seeks to aid stream flow recovery and enhance water security. California Agriculture. California Agriculture 62(4):148-155.

REED, S. E. and A. M. MERENLENDER 2008 Quiet, Non-Consumptive Recreation Reduces Protected Area Effectiveness. Conservation Letters 1(3):146-154

DEITCH, M. J., KONDOLF, G. M., and A. M. MERENLENDER 2009 Surface water balance to evaluate the hydrological impacts of small instream diversions and application to the Russian River basin, California, USA Aquatic Conservation: Marine and Freshwater Ecosystems 19:274-284.

DEITCH, M. J., KONDOLF, G. M., and A. M. MERENLENDER 2009 Hydrologic impacts of small-scale instream diversions for frost and heat protection in the California wine country. River Research and Applications. 25:118-134

BÊCHE, L. A. CONNORS, P. G., RESH, V. H. and A. M. MERENLENDER. 2009 Resilience of fishes and invertebrates to prolonged drought in two California streams. *Ecography* 32:778-788.

RISSMAN, A. R. and A. M. MERENLENDER 2008. The Conservation Contributions of Conservation Easements: Analysis of the San Francisco Bay Area Protected Lands Spatial Database. *Ecology and Society* 13 (1): 40. [online] URL: <http://www.ecologyandsociety.org/vol13/iss1/art40/>

LOHSE, K., NEWBURN, D., OPPERMAN, J., and A.M. MERENLENDER 2008 Forecasting the relative impacts of land use on fine sediment in anadromous fish habitat to guide development and conservation programs. *Ecological Applications* 18:467-482

MERENLENDER, A. M. 2007 Large Scale Planning for Connectivity. *Transactions of the Western Section Of The Wildlife Society* 43:8-10

OPPERMAN, J. J. and A. M. MERENLENDER. 2007 Living trees provide stable large wood in streams. *Earth Surface Processes and Landforms* 32:1229-1238.

MERENLENDER, A. M. 2007. Protecting Wildlands Beyond the Urban Fringe
In Lasting Landscapes: Reflections on the Role of Conservation Science in Land Use Planning. Kihlslinger, R.L. and J. Wilkinson (eds.) Environmental Law Institute. Washington D.C.

RISSMAN, A. R., REINER, R. and A. M. MERENLENDER 2007 Monitoring Natural Resources on Rangeland Conservation Easements Who's minding the easement? *Rangelands* June 2007 pp.21-26.

RISSMAN, A. R., LOZIER, L. COMENDANT, T. KAREIVA, P., KIESECKER, J. M., SHAW, R. and A. M. MERENLENDER 2007 Conservation easements: Biodiversity protection and private use. *Conservation Biology* 21(3):709-718

BYRD, K. B., KELLY, N. M., and MERENLENDER, A. M. 2007 Temporal and Spatial Relationships between watershed land use and salt marsh disturbance in a Pacific estuary. *Environmental Management* 39(1):98-112

G. M. KONDOLF, S. ANDERSON, R. LAVE, L. PAGANO, A. MERENLENDER AND E. S. BERNHARDT 2007 Two Decades of River Restoration in California: What Can We Learn? *Restoration Ecology* 15(3):516-523

HILTY, J. A., BROOKS, C., HEATON, E., and A. M. MERENLENDER. 2006 Forecasting the effect of land-use change on native and non-native mammalian predator distributions. *Biodiversity and Conservation*. *Biodiversity and Conservation* 15:2853-2871

NEWBURN, D., BERCK, P., and A. M. MERENLENDER 2006 Habitat and Open Space At Risk of Land-Use Conversion: Targeting Strategies for Land Conservation *American Journal of Agricultural Economics* 88(1):28-42

HILTY, J. A., LIDICKER, W. Z., and, A. M. MERENLENDER. 2006 Corridor Ecology: The Science and Practice of Connectivity for Biodiversity Conservation. Island Press, Washington DC pp. 323

OPPERMAN, J. J, LOHSE, K., BROOKS, C., KELLY, N. M., and MERENLENDER, A. M. 2005. Influence of land use on fine sediment in salmonid spawning gravels within the Russian River basin, California. *Canadian Journal of Fisheries and Aquatic Science* 62:2740-2751

MERENLENDER, A. M., BROOKS, C., SHABAZIAN, D., GAO, S., and R. JOHNSTON. 2005. Forecasting exurban development to evaluate the influence of land-use policies on wildland and farmland conservation. *Journal of Conservation Planning* 1(1):64-88.

NEWBURN, D., REED, S., BERCK, P. and A. M. MERENLENDER. 2005. Economics and land-use change in prioritizing private land conservation. *Conservation Biology*, 19(5):1411-1420.

- SULAK, A., HUNTSINGER, L., STANDIFORD R., MERENLENDER, A., and S. FAIRFAX. 2005. The agricultural conservation easement: a strategy for oak woodland conservation. In: Schnabel, S. and Goncalves, A. (eds). Sustainability of Agrosilvopastoral Systems: Dehesas, Montados. Chapter 6. *Advances in Geocology* 37:353-364.
- HILTY, J. A. and A. M. MERENLENDER. 2004. Use of riparian corridors and vineyards by mammalian predators in Northern California. *Conservation Biology* 18(1):126-135.
- MERENLENDER, A. M., HUNTSINGER, L., GUTHEY, G., and S. K. FAIRFAX. 2004. Land trusts and conservation easements: Who is conserving what for whom? *Conservation Biology* 18(1):65-75.
- OPPERMAN, J. and A. M. MERENLENDER. 2004. The effectiveness of riparian restoration for improving instream fish habitat in four hardwood-dominated California streams. *North American Journal of Fisheries Management*. 24(3):822-834.
- HILTY, J. A. and A. M. MERENLENDER. 2003. Studying biodiversity on private lands. *Conservation Biology* 17(1):132-137.
- GIUSTI, G. A. and A. M. MERENLENDER. 2002. Inconsistent application of environmental laws and policies to California's oak woodlands. USDA Forest Service Gen. Tech. Rep. PSW-GTR-184. 2002.
- HEISE, K. and A. M. MERENLENDER. 2002. Monitoring a half-century of change in a hardwood rangeland. *Journal of Range Management* 55(4):412-419.
- BROOKS, C. N. and A. M. MERENLENDER. 2001 Determining the pattern of oak woodland regeneration for a cleared watershed in northwest California: A necessary first step for restoration. *Restoration Ecology* 9(1):1-12.
- DITOMASO, J. M., HEISE, K. L., KYSER, G. B., MERENLENDER, A. M., and R. J. KEIFFER. 2001. Carefully timed burning can control barb goatgrass. *California Agriculture* 55(6):47-52.
- MERENLENDER, A. M., HEISE, K. L., BARTOLOME, J. W., and B. H. ALLEN-DIAZ. 2001 Monitoring shows vegetation change at multiple scales. *California Agriculture* 55(6):42-46.
- BROOKS, C. N. and A. M. MERENLENDER. 2000. How the GIS was used to map and quantify policy impacts. *California Agriculture* 54(3):19-20.
- HEATON, E. and A. M. MERENLENDER. 2000. Modeling potential vineyard expansion and habitat fragmentation. *California Agriculture* 54(3):12-18.
- HILTY, J. A. and A. M. MERENLENDER. 2000. A comparison of covered track-plates and remotely-triggered cameras. *Transactions of the Western Section of the Wildlife Society* 36:27-31.
- HILTY, J. and A. M. MERENLENDER. 2000. Faunal indicator taxa selection for monitoring ecosystem health. *Biological Conservation* 92:185-197.
- KENNEDY, T. B., MERENLENDER, A. M., and G. L. VINYARD. 2000. A Comparison of riparian condition and aquatic invertebrate community indices in central Nevada. *Western North American Naturalist* 60(3):255-272
- MERENLENDER, A. M. 2000. Mapping vineyard expansion provides information on agriculture and the environment. *California Agriculture* 54(3):7-12.
- OPPERMAN, J. and A. M. MERENLENDER. 2000. Deer herbivory as an ecological constraint to restoration of degraded riparian corridors. *Restoration Ecology* 8(1):41-47.
- HILTY, J. A. and MERENLENDER, A. M. 2000 A comparison of covered track-plates and remotely-triggered cameras. *Transactions of the Western Section of the Wildlife Society* 36:27-31

- HEISE, K. and A. M. MERENLENDER. 1999. Flora of a vernal pool complex in the Mayacmas mountains of Southern Mendocino County, California. *Madrono* 46(1):38-45.
- OVERDORFF, D. J., MERENLENDER, A. M., TALATA, P., TELO, A., and Z. A. FORWARD. 1999. Life history of *Eulemur fulvus rufus* from 1988-1998 in southeastern Madagascar. *American Journal of Physical Anthropology* 108(3):295-310.
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- BROOKS, C. N. and A. M. MERENLENDER. 1998. Characterizing the spatial pattern of vegetation regeneration in a cleared watershed. In Eighteenth Annual ESRI User Conference Proceedings, San Diego, CA. ESRI. Vol. 18. 23pp.
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- MERENLENDER, A. M. 1998. Yesterday's extinctions, today's concerns, tomorrow's future. *Trends in Ecology and Evolution* 13(3):124.
- MERENLENDER, A. M., HEISE, K. L., and BROOKS, C. 1998. Effects of sub-dividing private property on biodiversity in California's north coast oak woodlands. *Transactions of the Wildlife Society* 34:9-20.
- MERENLENDER, A. M. and C. BROOKS. 1997. Integrating geographic information at state, regional and local scales: An essential step for watershed management, restoration, and monitoring. In "What is watershed stability?" Proceedings of the Sixth Biennial Watershed Management Conference. Water Resources Center Report NO. 92. University of California.
- MERENLENDER, A. M., BOGGS, C., and D. D. MURPHY. 1996. The role of insects in conservation management. In Proceedings of the Symposium on Biological Diversity of the Central California Coast, eds. R. F Dasmann and N. Chiariello, 1997.
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