RODNEY B. SIEGEL

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Education

Ph.D. 1998 Ecology. University of California at Davis
B.A. 1991 Environmental Studies and Political Science (double major). *Cum laude*. Yale College, New Haven, CT

Professional Appointments

2008 – present Executive Director, The Institute for Bird Populations, Point Reyes Station, CA
1998 – 2008 Research Scientist, The Institute for Bird Populations, Point Reyes Station, CA
1997 – 1998 Adjunct Professor, Napa Valley College, Napa, CA

Professional Awards and Recognition

Recipient of the 2014 Wings Across the Americas Research Partnership Award from the US Forest Service for work as Principal Investigator on the project *"Monitoring and Conservation of Black-Backed Woodpecker in Burned Forests"*.

Professional Service Highlights

Reviewer during last five years: *Ecological Monographs*, *Ecography*, *Fire Ecology, Forest Ecology and Management, Ibis,* National Fish and Wildlife Foundation, *Western Birds*
Hummingbird Monitoring Network – Board of Directors: 2009 – 2014
San Francisco Bay Bird Observatory – Scientific Advisory Board: 2003 – present
California Partners in Flight – Executive Steering Committee: 2002 – present
Channel Islands National Park – Avian Monitoring Program Review Committee: 1999

Peer-reviewed Journal Articles

39. Tingley, M. W., V. Ruiz-Gutiérrez, R. L. Wilkerson, C. A. Howell, and **R. B. Siegel**. 2016. Pyrodiversity promotes avian diversity over the decade following forest fire. *Proceedings of the Royal Society B* 283:20161703 (published online).

38. **Siegel, R. B.**, R. Taylor, J. F. Saracco, L. Helton, and S. Stock. 2016. GPS-tracking reveals non-breeding locations and apparent molt migration of a Black-headed Grosbeak. *Journal of Field Ornithology* 87:196-203.

37. Albert, S., D. DeSante**, R. B. Siegel**, D. Kaschube, and J. Saracco. 2016. Monitoring landbirds in national parks: understanding populations, migratory connectivity, and climate change. Pages 11-17 in: S. Weber, editor. Engagement, Education, and Expectations — The Future of Parks and Protected Areas: Proceedings of the 2015 George Wright Society Conference on Parks, Protected Areas, and Cultural Sites. Hancock, Michigan: George Wright Society.

36. Polasik, J. S., J. X. Wu, K. Roberts, and **R. B. Siegel**. 2016. Great Gray Owls nesting in atypical, low-elevation habitat in the Sierra Nevada, California. *Journal of Raptor Research* 50:194-206.

35. Tingley, M. W., R. L. Wilkerson, C. A. Howell, and **R. B. Siegel**. 2016. An integrated occupancy and home-range model to predict abundance of a wide-ranging, territorial vertebrate. *Methods in Ecology and Evolution* 7:508-517.

34. Casas, A., M. Garcia, **R. B. Siegel**, C. Ramirez, A. Koltunov, and S. L. Ustin. 2016. Burned forest characterization at single-tree level with Airborne Laser Scanning for wildlife habitat assessment. *Remote Sensing of Environment* 175:231-241.

33. **Siegel, R. B.**, M. W. Tingley, R. L. Wilkerson, C. A. Howell, M. Johnson, and P. Pyle. 2016. Age structure of Black-backed Woodpecker populations in burned forests. *The Auk*: *Ornithological Advances 133:69-78.*

32. Wu, J. X., **R. B. Siegel**, H. L. Loffland, M. W. Tingley, S. L. Stock, K. N. Roberts, J. J. Keane, J. R. Medley, R.

Bridgman, and C. Stermer. 2015. Diversity of nest sites and nesting habitats used by Great Gray Owls in California. *Journal of Wildlife Management* 79:937-947.

31. Rowan, E. L, **R. B. Siegel**, D. R. Kaschube, and S. Stock. 2014. North American longevity records for nine landbird species monitored at Yosemite National Park's MAPS stations. *North American Bird Bander* 39:141-147.

30. **Siegel, R. B**., R. L. Wilkerson, M. W. Tingley, and C. A. Howell. 2014. Roost sites of the Black-backed Woodpecker in burned forest. *Western Birds* 45:296-303.

29. Ruegg, K., E. Anderson, K. Paxton, V. Apkenas, S. Lao, **R. B. Siegel**, D. F. DeSante, F. Moore, and T. Smith. 2014. Mapping migration in a songbird using high-resolution genetic markers. *Molecular Ecology* 23:5726-5739. doi:10.1111/mec.12977

28. Tingley, M. W., R. L. Wilkerson, M. L. Bond, C. A. Howell, and **R. B. Siegel**. 2014. Variation in home range size of Black-backed Woodpeckers (*Picoides arcticus*). *The Condor: Ornithological Applications* 116:325–340. DOI: 10.1650/CONDOR-13-140.1

27. **Siegel, R. B.**, P. Pyle, J. H. Thorne, A. J. Holguin, C. A. Howell, S. Stock, and M. Tingley. 2014. Vulnerability of birds to climate change in California's Sierra Nevada. *Avian Conservation and Ecology* 9(1):7.

26. Rundel, C., M. Wunder, A. Alvarado, K. Ruegg, R. Harrigan, A. Schuh, J. Kelly, **R. B. Siegel**, D. F. DeSante, T. Smith, and J. Novembre. 2013. Novel statistical methods for integrating genetic and stable isotopic data to infer individual-level migratory connectivity. *Molecular Ecology* 22:4163–4176. doi: 10.1111/mec.12393

25. Bond, M. L., D. E. Lee, **R. B. Siegel**, and M. W. Tingley. 2013. Diet and home range size of California Spotted Owls in a burned forest. *Western Birds* 44:114-126.

24. Bond, M. L., **R. B. Siegel**, R. L. Hutto, V. Saab, and S. Shunk. 2012. A new forest fire paradigm: the need for high-severity fires. *The Wildlife Professional* 6:46-49.
23. Lee, D. L., M. L. Bond, and **R. B. Siegel**. 2012. Dynamics of breeding-season site occupancy of the California Spotted Owl in burned forests. *The Condor* 114:792-802.

22. **Siegel**, **R. B.**, M. L. Bond, R. L. Wilkerson, B. C. Barr, C. Gardiner, and J. M. Kinsella. 2012. Lethal *Procyrnea* nematode infection in a Black-backed Woodpecker (*Picoides arcticus*) from California. *Journal of Zoo and Wildlife Medicine* 43:214-217.

21. **Siegel**, **R. B.**, R. L. Wilkerson, R. C. Kuntz II, J. F. Saracco, and A. L. Holmgren. 2012. Elevation ranges of birds at Mount Rainier National Park, North Cascades National Park Complex, and Olympic National Park. *Northwestern Naturalist* 93:23-39 doi: 10.1898/11-08.1

20. Wilkerson, R. L., and **R. B. Siegel**. 2011. Distribution and abundance of Western Burrowing Owls (*Athene cunicularia hypugaea*) in southeastern California. *The Southwestern Naturalist* 56:378-384.

19. **Siegel**, **R. B.**, R. L. Wilkerson, J. F. Saracco, and Z. L. Steel. 2011. Elevation ranges of birds on the Sierra Nevada's west slope. *Western Birds* 42:2-26.

18. Saracco, J. F., **R. B. Siegel**, and R. L. Wilkerson. 2011. Occupancy modeling of Black-backed Woodpeckers on burned Sierra Nevada forests. *Ecosphere* 2:art31. [doi:10.1890/ES10-00132.1]

17. Wilkerson, R. L., and **R. B. Siegel**. 2010. Assessing changes in the distribution and abundance of Burrowing Owls in California, 1993-2007. *Bird Populations* 10:1-36.

16. Bond, M. L., D. E. Lee, and **R. B. Siegel**. 2010. Winter movements by California Spotted Owls in a burned landscape. *Western Birds* 41:174-180.

15. Bond, M. L., D. E. Lee, **R. B. Siegel**, and J. P. Ward. 2009. Habitat use and selection by California Spotted Owls in a postfire landscape. *Journal of Wildlife Management* 73:1116-1124.

14. **Siegel**, **R. B.**, R. L. Wilkerson, and D. F. DeSante. 2008. Extirpation of the Willow Flycatcher from Yosemite National Park. *Western Birds* 39:8-21.

13. DeSante, D. F., T. S. Sillett, **R. B. Siegel**, J. F. Saracco, C. A. Romo de Vivar Alvarez, S. Morales, A. Cerezo, D. R. Kaschube, M. Grosselet, and B. Milá. 2005. MoSI (Monitoreo de Sobrevivencia Invernal): Assessing habitat-specific overwintering survival of neotropical migratory landbirds. *In* Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference, Asilomar, CA, March 2002; Gen. Tech. Rep. PSW-GTR-191, Albany, CA: Pacific Southwest Research Station, Forest Service, US Department of Agriculture.

12. Pyle, P., A. McAndrews, P. Veléz, R. L. Wilkerson, **R. B. Siegel**, and D. F. DeSante. 2004. Molt patterns, and age and sex determination of selected southeastern Cuban landbirds. *Journal of Field Ornithology* 75:136–145.

11. **Siegel, R. B.**, R. L. Wilkerson, and D. F. DeSante. 2003. A rapid, inexpensive field protocol for assessing the importance of montane meadows to breeding and post-breeding birds, and a test of the late season protocol. *In* California Riparian Systems: Processes and Floodplains Management, Ecology, and Restoration (P. M. Faber, ed.). 2001 Riparian Habitat and Floodplains Conference Proceedings, Riparian Habitat Joint Venture, Sacramento, CA.

10. **Siegel, R. B.**, and D. F. DeSante. 2003. Bird communities in thinned versus unthinned stands of Sierran mixed conifer forest. *Wilson Bulletin* 115:155-165.

9. Nott, M. P., D. F. DeSante, **R. B. Siegel**, and P. Pyle. 2002. Influences of the El Nino/Southern Oscillation and the North Atlantic Oscillation on avian productivity in forests of the Pacific Northwest of North America. *Global Ecology and Biogeography* 11:333-342.

8. **Siegel, R. B**., D. F. DeSante, and M. P. Nott. 2001. Using point counts to establish conservation priorities: how many visits are optimal? *Journal of Field Ornithology* 72:228-235.

7. Stephens, C., **R. B. Siegel** and W. W. Weathers. 2001. Thermal conductance and basal metabolism of the Orange-cheeked Waxbill (*Estrilda melpoda*). *Ostrich* 72:121-123.

6. **Siegel, R. B.**, W. W. Weathers and S. R. Beissinger. 1999. Hatching asynchrony reduces the duration, not the magnitude, of peak load in breeding green-rumped parrotlets (*Forpus passerinus*). *Behavioral Ecology and Sociobiology* 45:444-450.

5. **Siegel, R. B.**, W. W. Weathers and S. R. Beissinger. 1999. Assessing parental effort in a Neotropical parrot: a comparison of methods. *Animal Behaviour* 57:73-79.

4. Weathers, W. W., C. R. Olson, **R. B. Siegel**, C. L. Davidson, and T. R. Famula. 1999. Winter and breeding energetics of nonmigratory White-crowned Sparrows. *The Auk* 116:842-847.

3. Bosque, C., M. A. Pacheco, and **R. B. Siegel**. 1999. Maintenance energy costs of two partially folivorous tropical passerines. *The Auk* 116:246-252.

2. **Siegel, R. B.**, and M. V. Centeno. 1996. Neotropical migrants in marginal habitats on a Guatemalan cattle ranch. *Wilson Bulletin* 108:166-170.

1. Weathers, W. W., and **R. B. Siegel**. 1995. Body size establishes the scaling of avian postnatal metabolic rate: an interspecific analysis using phylogenetically independent contrasts. *Ibis* 137:532-542.

<u>Peer-reviewed Technical Reports, Protocols, and Conservation Plans</u>

Holmgren, A. L., R. L. Wilkerson, **R. B. Siegel**, and J. I. Ransom. 2016. North Coast and Cascades Network landbird monitoring: Report for the 2015 field season. Natural Resource Report NPS/NCCN/NRR—2016/1241. National Park Service, Fort Collins, Colorado.

Holmgren, A. L., R .L. Wilkerson, **R. B. Siegel**, and P. J. Happe. 2015. North Coast and Cascades Network landbird monitoring: Report for the 2014 field season. Natural Resource Data Series NPS/NCCN/NRDS—2015/502. National Park Service, Fort Collins, Colorado.

Saracco, J. F., A. L. Holmgren, R. L. Wilkerson, **R. B. Siegel**, R. C. Kuntz II, K. J. Jenkins, P. J. Happe, J. R. Boetsch, and M. H. Huff. 2014. Landbird trends in national parks of the North Coast and Cascades Network, 2005-12. U.S. Geological Survey Open-File Report 20141202, http://dx.doi.org/10.3133/ofr20141202.

Holmgren, A. L., R. L. Wilkerson, **R. B. Siegel**, and P. J. Happe. 2014. North Coast and Cascades Network landbird monitoring: Report for the 2013 field season. Natural Resource Data Series NPS/NCCN/NRDS—2014/691. National Park Service, Fort Collins, Colorado.

Holmgren, A. L., R. L. Wilkerson, **R. B. Siegel**, and R. C. Kuntz II. 2013. North Coast Cascades Network landbird monitoring report for the 2012 field season. Natural Resource Data Series NPS/NCCN/NRDS—20113/523. National Park Service, Fort Collins, Colorado.

Bond, M. L., **R. B. Siegel,** and D. Craig, editors. 2012. A conservation strategy for Black-backed Woodpecker (*Picoides arcticus*) in California. Version 1.0. The Institute for Bird Populations and California Partners in Flight. Point Reyes Station, California.

Siegel R. B., R. C. Kuntz II, R. L. Wilkerson, K. D. Kuhlman, and M. D. Toshack. 2012. Surveying for spotted owls in the Upper Skagit watershed of North Cascades National Park Complex, 2009-2010. Natural Resource Technical Report. NPS/NOCA/NRTR—2012/597. National Park Service. Fort Collins, Colorado. Published Report-2186188.

Holmgren, A. L., R. L. Wilkerson, and **R. B. Siegel**. 2012. Sierra Nevada Network bird monitoring: 2011 annual report. Natural Resource Data Series NPS/SIEN/NRDS—2012/362. National Park Service, Fort Collins, Colorado.

Holmgren, A. L., R. L. Wilkerson, **R. B. Siegel**, and R. C. Kuntz II. 2012. North Coast Cascades Network landbird monitoring report for the 2011 field season. Natural Resource Report NPS/NCCN/NRTR—xxx/xxx.

Steel, Z. L., M. L. Bond, **R. B. Siegel**, and P. Pyle. 2012. Avifauna of Sierra Nevada Network parks: Assessing distribution, abundance, stressors, and conservation opportunities for 145 bird species. Natural Resource Report NPS/SIEN/NRR—2012/506. National Park Service, Fort Collins, Colorado.

Steel, Z. L., M. L. Bond, **R. B. Siegel**, and P. Pyle. 2012. Avifauna of Sierra Nevada Network parks: Assessing distribution, abundance, stressors, and conservation opportunities for 145 bird species (appendix A – species accounts). Natural Resource Report NPS/SIEN/NRR—2012/506A. National Park Service, Fort Collins, Colorado.

Holmgren, A. L., R. L. Wilkerson, **R. B. Siegel**, and R. C. Kuntz II. 2011. North Coast Cascades Network landbird monitoring report for the 2010 field season. Natural Resource Report NPS/NCCN/NRTR—xxx/xxx.

Loffland, H. L, **R. B. Siegel**, and R. L. Wilkerson. 2011. Avian Monitoring Protocol for Sierra Nevada Meadows: A tool for assessing the effects of meadow restoration on birds. Version 1.0. The Institute for Bird Populations, Point Reyes Station, California.

Siegel, R. B., R. L. Wilkerson, and M. Goldin Rose. 2010. Bird monitoring protocol for national parks in the Sierra Nevada Network. Natural Resource Report NPS/SIEN/NRR--2010/231. National Park Service, Fort Collins, Colorado.

Wilkerson, R. L., **R. B. Siegel**, and R. C. Kuntz II. 2010. North Coast Cascades Network landbird monitoring report for the 2009 field season. Natural Resource Report NPS/NCCN/NRTR—2010/392.

Siegel, R. B, R. C. Kuntz II, R. L. Wilkerson, and K. D. Kuhlman. 2010. Surveying for Spotted Owls in the northeastern portion of North Cascades National Park Service Complex, 2009-2010: report for the 2009 field season. Natural Resource Technical Report NPS/NCCN/NRTR/2010/334. National Park Service, Fort Collins, Colorado.

Siegel, R. B., R. L. Wilkerson, and S. Hall. 2009. Landbird inventory for Olympic National Park (2002-2003).

Natural Resource Technical Report NPS/NCCN/NRTR2009/159. National Park Service, Fort Collins, Colorado.

Siegel, R. B., R. L. Wilkerson, R. C. Kuntz II, and J. McLaughlin. 2009. Landbird inventory for North Cascades National Park Service Complex (2001-2002). Natural Resource Technical Report NPS/NCCN/NRTR2009/152. National Park Service, Fort Collins, Colorado.

Siegel, R. B., R. L. Wilkerson, H. K. Pedersen, and R. C. Kuntz II. 2009. Landbird inventory of San Juan Island National Historical Park (2002). Natural Resource Technical Report NPS/NCCN/NRTR2009/156. National Park Service, Fort Collins, Colorado.

Wilkerson, R. L. and **R. B. Siegel**. 2009. Landbird inventory for Lewis and Clark National Historical Park (2004). Natural Resource Technical Report NPS/NCCN/NRTR2009/165. National Park Service, Fort Collins, Colorado.

Wilkerson, R. L, **R. B. Siegel**, and J. Schaberl. 2009. Landbird inventory for Mount Rainier National Park (2003-2004). Natural Resource Technical Report NPS/NCCN/NRTR2009/164. National Park Service, Fort Collins, Colorado.

Siegel, R. B., K. E. Jablonski, M. N. Scholer, R. C. Kuntz II, and R. L. Wilkerson. 2008. Surveying Spotted Owls on the east slope of North Cascades National Park Service Complex: report for the 2007 and 2008 field seasons. Report to North Cascades National Park Service Complex. Natural Resource Technical Report NPS/NCCN/NRTR—2008/114. National Park Service, Fort Collins, Colorado.

Siegel, R. B., R. L. Wilkerson, K. J. Jenkins, R. C. Kuntz II, J. R. Boetsch, J. P. Schaberl, and P. J. Happe. 2007. Landbird Monitoring Protocol for National Parks in the North Coast and Cascades Network. U.S. Geological Survey Techniques and Methods 2-A6. 208 pp.

Siegel, R. B. 2000. Methods for monitoring landbirds. USDI NPS Technical Report NPS/NRNOCA/NRTR/00-03.

Siegel, R. B., and D. F. DeSante. 1999. Draft avian conservation plan for the Sierra Nevada Bioregion: a report to California Partners in Flight. The Institute for Bird Populations, Point Reyes Station, CA.

Technical Reports

Polasik, J. S., H. L. Loffland, **R. B. Siegel**, and M W. Tingle. 2016. Assessing bumble bee communities on the Fred's and Power Fires of the Eldorado National Forest: report for the 2015 field season. Report to USFS Pacific Southwest Region. The Institute for Bird Populations, Point Reyes Station, CA.

Helton, L. W., **R. B. Siegel**, D. R. Kaschube, and S. Stock. 2015. The 2014 annual report of the Monitoring Avian Productivity and Survivorship (MAPS) Program in Yosemite National Park. The Institute for Bird Populations, Point Reyes Station, CA.

Loffland, H., and **R. B. Siegel**. 2015. Monitoring bird response to restoration at Indian Valley. Report to American Rivers. The Institute for Bird Populations, Point Reyes Station, CA.

Siegel, R. B., M. W. Tingley, and R. L. Wilkerson. 2015. Black-backed Woodpecker MIS surveys on Sierra Nevada national forests: 2014 annual report. Report to U.S.D.A. Forest Service Pacific Southwest Region. The Institute for Bird Populations, Point Reyes Station, CA.

Tingley, M. W, R .L. Wilkerson, and **R. B. Siegel**. 2015. Explanation and guidance for a decision support tool to help manage post-fire Black-backed Woodpecker habitat. The Institute for Bird Populations, Point Reyes Station, CA.

Tarbill, G. L., A. M. White, and **R. B. Siegel**. 2014. Woodpecker nesting and foraging behavior following the Rim Fire. Report to USFS Pacific Southwest Region. The Institute for Bird Populations, Point Reyes Station, CA.

Loffland, H. L., **R. B. Siegel**, C. Stermer, B. R. Campos, R. D. Burnett, and T. Mark. 2014. Assessing Willow Flycatcher population size and distribution to inform meadow restoration in the Sierra Nevada and Southern Cascades. The Institute for Bird Populations, Point Reyes Station, CA.

Campos, B. R., R. D. Burnett, H. L. Loffland, and **R. B. Siegel**. 2014. Evaluating meadow restoration in the Sierra Nevada using birds and their habitat associations. Report to the National Fish and Wildlife Foundation. Point Blue Conservation Science, Petaluma, CA.

Siegel, R. B., M. W. Tingley, and R. L. Wilkerson. 2014. Black-backed Woodpecker MIS Surveys on Sierra Nevada National Forests: 2013 Annual Report. Report to USFS Pacific Southwest Region. The Institute for Bird Populations, Point Reyes Station, CA

Siegel, R. B., M. W. Tingley, and R. L. Wilkerson. 2014. Assessing home-range size and habitat needs of Black-backed Woodpeckers in California: Report for the 2013 field season. Report to USFS Pacific Southwest Region. The Institute for Bird Populations, Point Reyes Station, California.

Rowan, E, R., **R. B. Siegel**, D. R. Kaschube, and S. Stock. 2014. The 2013 annual report of the Monitoring Avian Productivity and Survivorship (MAPS) Program in Yosemite National Park. Report to Yosemite National Park. The Institute for Bird Populations, Point Reyes Station, CA.

Tingley, M. W, R. L. Wilkerson, and **R. B. Siegel**. 2014. Modeling expected density of Black-backed Woodpeckers at the Rim fire, California: a decision-support tool for post-fire management. Report to USFS Pacific Southwest Region. The Institute for Bird Populations, Point Reyes Station, California.

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Loffland, H. L, **R. B. Siegel**, and R. L. Wilkerson. 2013. Assessing the effects of meadow restoration on bird populations in the greater Sierra Nevada: report for the 2012 field season. Report to the National Fish and Wildlife Foundation. The Institute for Bird Populations, Point Reyes Station, CA.

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Siegel, R. B., J. F. Saracco, R. L. Wilkerson, and S. Stock. 2012. Long-term demographics of Yosemite's songbirds: An analysis of data from the Monitoring Avian Productivity and Survivorship (MAPS) program in Yosemite National Park. Report to Yosemite National Park. The Institute for Bird Populations, Point Reyes Station, CA.

Kaschube, D. R., **R. B. Siegel**, and S. Stock. 2011. The 2011 annual report of the Monitoring Avian Productivity and Survivorship (MAPS) Program in Yosemite National Park. Report to Yosemite National Park. The Institute for Bird Populations, Point Reyes Station, CA.

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