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EDUCATION:

B.S. - Natural Science, Lewis and Clark College, Portland, OR (1972)
Ph.D. - Biology/Ecology, Utah State University, Logan, UT (1981)

WORK EXPERIENCE SUMMARY:

Ecologist - Aldo Leopold Wilderness Research Institute, Missoula, Montana (1992-present)
Assistant Professor - Natural Science Program, University of Colorado, Boulder, Colorado (1989-1992)
Assistant Professor - Biology Department, University of Puget Sound, Tacoma, Washington (1987-1989)
Visiting Assistant Professor - Zoology Department, University of Montana, Missoula, Montana (1986-1987)
NSF Postdoctoral Fellow - Department of Biology, Utah State University, Logan, Utah (1984-1986)
Adjunct Faculty - Department of Zoology, Weber State College, Ogden, Utah (1985)
Adjunct Faculty - Department of Biology, Utah State University, Logan, Utah (1983)

HONORS/AWARDS:

2006. USDA Forest Service, National Excellence in Wilderness Stewardship Research Award.
2007. USDA Forest Service, Rocky Mountain Research Station Award for best technology transfer publication.
2008. Wilderness Stewardship Agencies, National Wilderness Preservation System Award.
2013. DOI National Park Service, Director's Wes Henry National Excellence in Wilderness Stewardship Award.
2015. USDA Forest Service, National Excellence in Wilderness Stewardship Award.

PUBLICATIONS (since 2000):

Landres P.B. 2000. A framework for evaluating proposals for scientific activities in wilderness. Pages 239-245 *in* Proceedings from Wilderness Science in a Time of Change Conference, Volume 3: Wilderness as a Place for Scientific Inquiry. USDA Forest Service, Rocky Mountain Research Station Proceedings RMRS-P15-Vol-3, Fort Collins, CO.

Landres, P.B. 2000. Wilderness monitoring: new directions and opportunities. *International Journal of Wilderness* 6(3):38.

Landres P.B., and S.M. Meyer. 2000. A National Wilderness Preservation System database: key attributes and trends, 1964 through 1999. USDA Forest Service, Rocky Mountain Research Stations General Technical Report RMRS-GTR-18-Revised Edition. Fort Collins, CO.

Landres P.B., M. Brunson, L. Merigliano, C. Sydoriak, and S. Morton. 2000. Naturalness and wildness: the dilemma and irony of managing wilderness. Pages 377-381 *in* Proceedings from Wilderness Science in a Time of Change Conference, Volume 5: Wilderness Ecosystems, Threats, and Management. USDA Forest Service, Rocky Mountain Research Station Proceedings RMRS-P15-VOL-5, Fort Collins, CO.

Meyer, S.M., and **P.B. Landres**. 2000. A National Wilderness Preservation System database: benefits, limitations, and future needs. *International Journal of Wilderness* 6(April):13-18.

Miller, C.M., **P.B. Landres**, and P.B. Alaback. 2000. Evaluating risks and benefits of wildland fire at landscape scales. Pages 78-87 *in* Proceedings from Crossing the Millennium: Integrating Spatial Technologies and Ecological Principles for a New Age in Fire Management (L.F. Neuenschwander, K.C. Ryan, technical editors). University of Idaho, Moscow, ID.

- Parsons, R., P. Morgan, and **P.B. Landres**. 2000. Applying the natural variability concept: towards desired future conditions. Pages 222-237 *in* Ecosystem Management of Forested Landscapes (R.G. D'Eon, J. Johnson, E.A. Ferguson, editors). University of British Columbia Press, Vancouver, BC, Canada.
- Davis, J.C., G.W. Minshall, C.T. Robinson, and **P.B. Landres**. 2001. Monitoring Wilderness Stream Ecosystems. USDA Forest Service, Rocky Mountain Research Station General Technical Report RMRS-GTR-70. 139 pages. Fort Collins, CO.
- Landres, P.B.**, D.R. Spildie, and L.P. Queen. 2001. GIS applications to wilderness management: potential uses and limitations. USDA Forest Service, Rocky Mountain Research Station General Technical Report RMRS-GTR-80. Fort Collins, CO.
- Landres, P.B.**, M. Brunson, and L. Merigliano. 2001. Naturalness and wildness: the dilemma and irony of ecological restoration in wilderness. *Wild Earth*(Winter) 10(4):77-82.
- Landres, P.B.**, S. Meyer, and S. Matthews. 2001. The Wilderness Act and fish stocking: an overview of legislation, judicial interpretation, and agency implementation. *Ecosystems* 4:287-295.
- Landres, P.B.** 2002. Ecological considerations in using prescribed fire. Pages 35-42 *in* National Conference on the Social Acceptability of Fuel Treatments on Western Public Lands (J. Burchfield, editor), Bolle Center for People and Forests, University of Montana, Missoula, MT.
- Knight, R.L., and **P.B. Landres**. 2002. Central concepts and issues of biological conservation. Pages 22-33 *in* Concepts and Applications of Landscape Ecology to Biological Conservation (K. Gutzwiller, editor). Springer-Verlag, New York, NY.
- Parsons, D.J., **P.B. Landres**, and C. Miller. 2003. The dilemma of managing and restoring natural fire and fuels in United States wilderness. Pages 19-26 *in* Proceedings of Fire Conference 2000: The First National Congress of Fire Ecology, Prevention, and Management (K.E.M. Galley, R.C. Klinger, and N.G. Sugihara, editors). Miscellaneous Publication No. 13, Tall Timbers Research Station, Tallahassee, FL.
- Landres, P.**, J. Alderson, and D.J. Parsons. 2003. The challenge of doing science in wilderness: historical, legal, and policy context. *George Wright FORUM* 20(3):42-49.
- Landres, P.** 2004. Developing indicators to monitor the “outstanding opportunities” quality of wilderness character. *International Journal of Wilderness* 10(3):8-11, 20.
- Landres, P.** 2004. Managing the wild in designated wilderness. *Frontiers in Ecology and the Environment* 9:498-499.
- Landres, P.** 2004. The Wilderness Stewardship Reference System. *International Journal of Wilderness* 10(2):34, 22.
- Landres, P.** 2004. Developing indicators to monitor the “outstanding opportunities” quality of wilderness character. *International Journal of Wilderness* 10(3):8-11, 20.
- Miller, C., and **P. Landres**. 2004. Exploring information needs for wildland fire and fuels management. USDA Forest Service, Rocky Mountain Research Station General Technical Report, RMRS-GTR-127. 36 pages. Fort Collins, CO.
- Landres, P.** 2005. Balancing the benefits and impacts of science in Alaska’s wilderness. *Alaska Park Science* 4(2):44-46.

Landres, P., S. Boutcher, L. Merigliano, C. Barns, D. Davis, T. Hall, S. Henry, B. Hunter, P. Janiga, M. Laker, A. McPherson, D.S. Powell, M. Rowan, and S. Sater. 2005. Monitoring selected conditions related to wilderness character: a national framework. USDA Forest Service Rocky Mountain Research Station General Technical Report, RMRS-GTR-151. 38 pages. Fort Collins, CO.

Thelen, G.C., J.M. Vivanco, B. Newingham, W. Good, H.P. Bais, **P. Landres**, A. Caesar, and R.M. Callaway. 2005. Insect herbivory stimulates allelopathic exudation by an invasive plant and the suppression of natives. *Ecology Letters* 8:209-217.

Roeper, N., **P. Landres**, and D. Fisher. 2006. The Global Wilderness Seminar for Government Agencies: a meeting at the crossroads of wildlands stewardship. *International Journal of Wilderness* 12(3):45-46.

Landres, P. 2006. Developing wilderness character monitoring: a personal reflection. *International Journal of Wilderness* 12(3):30-31.

Landres, P. 2007. Update on wilderness character monitoring. *International Journal of Wilderness* 13(2):37-38.

Sharman, L.C., **P. Landres**, and S. Boudreau. 2007. Developing a framework for evaluating proposals for research in wilderness: science to protect and learn from parks. *Alaska Park Science* 6(2):100-103.

Landres, P., B. Barr, and C.F. Kormos. 2008. A comparison of international wilderness laws. Pages 31-54 in *A Handbook on International Wilderness Law and Policy* (C.F. Kormos, editor). Fulcrum Publishing, Golden, CO. (Also translated into French in the book “Une introduction au droit et aux politiques internationales de la nature sauvage” (Edite par C.F. Kormos). 2013. Fulcrum Publishing, Golden, CO.)

Cole, D.N., L. Yung, E.S. Zavaleta, G.H. Aplet, F.S. Chapin, D.M. Graber, E.S. Higgs, R.J. Hobbs, **P.B. Landres**, C.I. Millar, D.J. Parsons, J.M. Randall, N.L. Stephenson, K.A. Tonnessen, P.S. White, and S. Woodley. 2008. Naturalness and beyond: protected area stewardship in an era of global environmental change. *The George Wright Forum* 25(1):36-56.

Landres, P., C. Barns, J.G. Dennis, T. Devine, P. Geissler, C.S. McCasland, L. Merigliano, J. Seastrand, and R. Swain. 2008. Keeping It Wild: An Interagency Strategy to Monitor Trends in Wilderness Character Across the National Wilderness Preservation System. 81 pages. USDA Forest Service, Rocky Mountain Research Station General Technical Report RMRS-GTR-212, Fort Collins, CO.

Landres, P., M.B. Hennessy, K. Schlenker, D.N. Cole, and S. Boutcher. 2008. Applying the concept of wilderness character to National Forest planning, monitoring, and management. 45 pages. USDA Forest Service, Rocky Mountain Research Station General Technical Report RMRS-GTR-217WWW, Fort Collins, CO.

Landres, P., S. Boutcher, T. Blett, D. Bumpus, T. Carlson, D. Cole, L. Dean, T. Hall, C. Hardy, A. Leach, A. Mebane, L. Merigliano, S. Rinehart, and P. Wright. 2009. Technical Guide for Monitoring Selected Conditions Related to Wilderness Character. 293 pages. USDA Forest Service, General Technical Report WO-80. US Government Printing Office, Washington, DC.

Keane, R.E., P.F. Hessburg, **P. Landres**, and F.J. Swanson. 2009. The use of historical range and variability (HRV) in landscape management. *Forest Ecology and Management* 258:1025-1037.

Hobbs, R.J., D. N. Cole, L. Yung, E.S. Zavaleta, G.H. Aplet, F.S. Chapin, **P. Landres**, D.J. Parsons, N.L. Stephenson, P.S. White, D.M. Graber, E.S. Higgs, C.I. Millar, J.M. Randall, K.A. Tonnessen, S. Woodley.

2009. Guiding concepts for protected area stewardship in an era of global environmental change. *Frontiers in Ecology and the Environment*.

Landres, P. 2009. A new tool to evaluate proposals for climate change research in U.S. wilderness. *International Journal of Wilderness* 15(3):29-30.

Landres, P. 2009. Book review of *The Wilderness Debate Rages On: Continuing the Great New Wilderness Debate*. *Ecological Restoration* 27:364-367. (A shortened version of this book review was also published in *International Journal of Wilderness*, 2009, 15(3):47-48.)

Landres, P., M. Fincher, L. Sharman, J. Alderson, C. Barns, T. Carlson, R. L. Anderson, S. Boudreau, D. J. Parsons, L. Boyers, K. Hood. 2010. An interagency framework to evaluate proposals for scientific activities in wilderness. USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO. General Technical Report RMRS-GTR-234WWW. 74 pages.

Landres, P. 2010. Let it be: a hands-off approach to preserving wildness in protected areas. Pages 88-105 *In Beyond Naturalness: Rethinking Park and Wilderness Stewardship in an Era of Rapid Change* (edited by D.N. Cole and L. Yung). Island Press, Washington, DC.

Craig, D., **P. Landres**, L. Yung. 2010. Improving wilderness stewardship through searchable databases of U.S. legislative history and legislated special provisions. *International Journal of Wilderness* 16(2):27-31.

Schwartz, M.K., **P. Landres**, and D.J. Parsons. 2011. Wildlife scientists and wilderness managers finding common ground with noninvasive and nonintrusive sampling of wildlife. *International Journal of Wilderness* 17(1):4-8.

Black, A.E. and **Landres, P.** 2011. Understanding the effects of fire management practices on forest health: implications for weeds and vegetation structure. Chapter 14, pages 151-156 *in* (K.M. Potter and B.L. Conkling, editors). *Forest Health Monitoring 2009 National Technical Report*, Forest Health Monitoring Program, USDA Forest Service, Washington, DC. 188 pages.

Landres, P., W.N. Vagias, and S. Stutzman. 2012. Using wilderness character to improve wilderness stewardship. *Park Science* 28 (Winter 2011-2012):44-48.

Cowley, J., **P. Landres**, M. Memory, D. Scott, and A. Lindholm. 2012. Integrating cultural resources and wilderness. *Park Science* 28 (Winter 2011-2012): 29-33, 38.

Adams, A., **P. Landres**, S. Kingston. 2012. A database application for monitoring wilderness character. *Park Science* 28 (Winter 2011-2012): 58-59.

Tricker, J., **P. Landres**, S. Dingman, C. Callagan, J. Stark, L. Bonstead, K. Furhmann, and S. Carver. 2012. Mapping wilderness character in Death Valley National Park. *National Park Service Natural Resource Report*, NPS/DEVA/NRR—2012/503, Fort Collins, CO. 82 pages.

Carver, S., J. Tricker, and **P. Landres**. 2013. Keeping it wild: mapping wilderness character in the United States. *Environmental Management* 131:239-255.

Landres, P., S. Stutzman, W. Vagias, C. Cook, C. Mills, T. Devine, S. Dingman, A. Lindholm, M. Stuebe, M. Memory, R. Scott, M. Bilecki, R. O'Neil, C. Holbeck, F. Turina, M. Haynie, S. Craighead, P. Jenkins, J. Curtis, and K. Trevino. 2014. *Keeping It Wild in the National Park Service: A User Guide to Integrating Wilderness Character into Park Planning, Management, and Monitoring*. National Park Service, Publication Number WASO 909/121797, Denver Service Center, Lakewood, CO. 219 pages.

Tricker, J., **P. Landres**, G. Fauth, P. Hardwick, and A. Eddy. 2014. Mapping wilderness character in Sequoia and Kings Canyon National Parks. Natural Resource Technical Report NPS/SEKI/NRTR—2014/872, National Park Service, National Resource Stewardship and Science, Fort Collins, CO, 85 pages.

Landres, P., C. Barns, S. Boutcher, T. Devine, P. Dratch, A. Lindholm, L. Merigliano, N. Roeper, and E. Simpson. 2015. Keeping it wild 2: an updated interagency strategy to monitor trends in wilderness character across the National Wilderness Preservation System. USDA Forest Service, Rocky Mountain Research Station, Service General Technical Report RMRS-GTR-340. Fort Collins, CO. 114 p.

Burrows, R., J. Tricker, D. Abbe, **P. Landres**, J. Paynter, D. Schirokauer, and P. Hooge. 2016. Mapping wilderness character in Denali National Park and Preserve. Natural Resource Report NPS/DENA/NRR-2016/1223, National Park Service, Fort Collins, CO. 106 pages.

Naficy, C., E. Keeling, **P. Landres**, P. Hessburg, T. Veblen, and A. Sala. 2016. Wilderness in the 21st century: A framework for testing assumptions about ecological intervention in wilderness using a case study of fire ecology in the Rocky Mountains. *Journal of Forestry* 114:384-395.

Landres, P., E. Mejicano. 2016. Evaluating effectiveness of IUCN protected area management Category 1b sites. Pages 136-140 in *IUCN Wilderness Protected Areas: Management Guidelines for IUCN Category 1b Protected Areas*, edited by S.A. Casson, V.G. Martin, A. Watson, A. Stringer, and C.F. Kormos. International Union for the Conservation of Nature's World Commission on Protected Areas Best Practice Protected Area Guidelines Series, Gland, Switzerland, 166 pages.