

## CURRICULUM VITAE - WILLIAM B. KROHN

**BIRTH DATE:** 2 May 1945

**HOME ADDRESS:** 4 Meadow Lane  
Brewer, ME 04412

**EDUCATION:** B.S. University of Alaska 1968  
M.S. University of Maine 1969  
Ph.D. University of Idaho 1977

**PRESENT POSITION:** Professor of Wildlife Ecology and Cooperating Professor of Zoology, and Leader, Maine Cooperative Fish and Wildlife Research Unit (MCFWRU), U. S. Geological Survey, 5755 Nutting Hall, University of Maine, Orono, ME 04469-5755.

### **PROFESSIONAL EXPERIENCE:**

1967-1969 Graduate Assistant. MCFWRU, University of Maine, Orono, ME.

1969-1974 Wildlife Research Biologist. Migratory Bird and Habitat Research Laboratory, U.S. Fish and Wildlife Service, Orono, ME.

1974-1977 Graduate Assistant. Idaho Cooperative Wildlife Research Unit, University of Idaho, Moscow, ID.

1978 Research Associate, Idaho Cooperative Wildlife Research Unit, University of Idaho, Moscow, ID.

1978-1979 Wildlife Management Biologist. U.S. Bureau of Land Management, Washington, D.C.

1979-1982 Project Leader, Office of Biological Services, U.S. Fish and Wildlife Service, Washington, D.C.

1982-1983 Team Coordinator, Division of Biological Services, U.S. Fish and Wildlife Service, Washington, D.C.

1984 Assistant Chief, Office of Migratory Bird Management, U.S. Fish and Wildlife Service, Washington, D.C.

1985 - present Leader, MCFWRU, USGS Biological Resources Discipline, University of Maine, Orono, ME.

**RESEARCH ACTIVITIES:** Dr. Krohn, as MCFWRU Leader, is responsible for helping to meet the information needs of federal and state agencies responsible for the conservation of inland fishes and wildlife. His early research focused on the behavior and population ecology of the American woodcock and the western Canada goose. Populations delineated by this research are now routinely used to manage these migratory game birds. Dr. Krohn was the principal investigator on the Maine Gap Analysis Project (ME-GAP); a five-year effort that built approximately 275 GIS databases for use in statewide conservation planning. Current research includes graduate students assessing methods for modeling wildlife habitat relationships, characterizing the pre-settlement forest of northern Maine, documenting and assessing the historic status of selected Maine wildlife species, and determining the habitat ecology of snowshoe hare and Canada lynx at multiple scales and times. Dr. Krohn has published over one hundred scientific and technical articles and peer-reviewed book chapters, and seven books and monographs. He currently has two books in press.

**RESEARCH AND EXTENSION GOALS:** To continue research into (1) species-habitat relations, especially as related to factors effecting the broad-scale distributions of forest carnivores, and (2) to use historic information on Maine's wildlife and forests to better understand ecological processes effecting the changing abundances and distributions of selected wildlife species. In terms of extension, my goal is to continue to ensure the timely application of research findings where relevant. For example, GIS data from ME-GAP, in cooperation with an interagency team, was modified and put into a system that is now being used throughout southern Maine for land conservation planning. This system, known as "Beginning With Habitat – An Approach to Conserving Open Space," was recognized with the Governor's Teamwork Award to September 2002. Also, I expect that on-going cooperative research on the ecology of hares and lynx in Maine will be central to the efforts by the U. S. Fish and Wildlife Service to develop a recovery plan for Canada lynx in the Northeast.

I am also part of collaborative project with Dr. Harrison, and a series of graduate students and research associates, to develop and test a habitat-based planning system for the commercial forests of northern Maine. This system uses American marten and Canada lynx as umbrella species, and is designed to assess both past and future habitat supplies. I also continue to document and study the historical abundances and distributions of selected species in northern Maine, giving special attention to factors related to broad-scale geographical and temporal changes of wildlife populations.

## **Publication List**

Following are the publications authored or co-authored by the Dr. William B. Krohn. Not included are the some two dozen scientific and technical publications that were authored solely the by Krohn's students. Dr. Krohn encourages his students, especially Ph. D students, to write and publish at least one article where they are the sole author.

### **Scientific and Technical**

Krohn, W. B. 1970. Woodcock feeding habits as related to summer field usage in central Maine. *Journal of Wildlife Management*, 34(4): 769-755.

Krohn, W. B. 1971. Some patterns of woodcock activities on Maine summer fields. *Wilson Bulletin*, 83(4): 396-407.

Owen, R. B., Jr., and Krohn, W. B. 1973. Molt patterns and weight changes of the American woodcock. *Wilson Bulletin*, 85(1): 31-41.

Krohn, W. B., and J. R. Hynson. 1975. A search for blood protozoans in the American woodcock. *Journal of Wildlife Diseases*, 11(1): 107-108.

Krohn, W. B., and E. R. Clark. 1977. Band-recovery distribution of eastern Maine woodcock. *Wildlife Society Bulletin*, 5(3): 118-122.

Krohn, W. B., J. E. Rieffenberger, and F. Ferrigno. 1977. Fall migration of woodcock at Cape May, New Jersey. *Journal of Wildlife Management*, 41(1): 104-111.

Krohn, W. B., and E. G. Bizeau. 1979. Molt migration of the Rocky Mountain population of the western Canada Goose. Pages 130-140 **IN** Jarvis, R. L., and J. C. Bartonek (editors). *Management and Biology of Pacific Flyway Geese*. Portland, Oregon. 346pp.

Krohn, W. B., and E. G. Bizeau. 1988. Changes in winter distribution of the Rocky Mountain Canada goose population. *Wildlife Society Bulletin*, 16(3): 272-277.

Krohn, W. B., and R. B. Owen, Jr. 1988. Validation of a habitat suitability model for eider nesting islands. *Transactions of the Northeast Section of The Wildlife Society*, 45:18-26.

Krohn, W. B., and E. G. Bizeau. 1989. An estimate of bias in tail-fan surveys of Rocky Mountain Canada geese. *Northwest Science*, 63(1): 1-4.

Arthur, S. M., W. B. Krohn, and J. R. Gilbert. 1989. Home range characteristics of adult fishers. *Journal of Wildlife Management*, 53(3): 674-679.

Arthur, S. M., W. B. Krohn, and J. R. Gilbert. 1989. Habitat use and diet of fishers. *Journal of Wildlife Management*, 53(3): 680-688.

- Snow, W. D., H. L. Mendall, and W. B. Krohn. 1990. Capturing common eiders by night-lighting in coastal Maine. *Journal of Field Ornithology*, 61(1): 67-72.
- DiBello, F. J., S. M. Arthur, and W. B. Krohn. 1990. Food habits of sympatric coyotes, red foxes, and bobcats in Maine. *Canadian Field-Naturalist*, 104(3): 403-408.
- Dubuc, L. J., W. B. Krohn, and R. B. Owen, Jr. 1990. Predicting occurrence of river otters by habitat on Mount Desert Island, Maine. *Journal of Wildlife Management*, 54(4): 594-599.
- Livingston, S. A., C. S. Todd, W. B. Krohn, and R. B. Owen, Jr. 1990. Habitat models for nesting bald eagles. *Journal of Wildlife Management*, 54(4): 644-653.
- Arthur, S. M. and W. B. Krohn. 1991. Activity patterns, movements, and reproductive ecology of fishers in southcentral Maine. *Journal of Mammalogy*, 72(2): 379-385.
- Crowley, S. K., W. B. Krohn, and T. F. Paragi. 1991. A comparison of fisher recruitment indices. *Transactions Northeast Section of the Wildlife Society*, 47:36-42.
- Krohn, W. B. 1992. Sequence of habitat occupancy and abandonment: potential standards for testing habitat models. *Wildlife Society Bulletin*, 20(4): 441-444.
- Arthur, S. M., R. A. Cross, T. F. Paragi, and W. B. Krohn. 1992. Precision and utility of cementum annuli for determining ages of fishers. *Wildlife Society Bulletin*, 20(4): 402-405.
- Dubuc, L. J., R. B. Owen, Jr., W. B. Krohn, and C. J. Schell. 1992. Food and distribution of river otters on Mount Desert Island, Maine. *Transactions Northeast Section of the Wildlife Society*, 48:104-112.
- Bogaczyk, B. A., W. B. Krohn, and H. C. Gibbs. 1993. Factors affecting *Paralaphostrongylus tenuis* in White-tailed Deer (*Odocoileus virginianus*) of Maine. *Journal of Wildlife Diseases*, 29(2): 266-272.
- Arthur, S. M., T. F. Paragi, and W. B. Krohn. 1993. Dispersal of juvenile fishers in Maine. *Journal of Wildlife Management*, 57(4): 868-874.
- Vander Haegen, W. M., W. B. Krohn, and R. B. Owen, Jr. 1993. Effects of weather on earthworm abundance and foods of the American woodcock in spring. Pages 26-31 **IN** Longcore, J. R., and G. F. Sepik (editors). Proceedings 8<sup>th</sup> American Woodcock Symposium, U. S. Fish and Wildlife Service Biological Report 16, Washington, DC. 139pp.
- Vander Haegen, W. M., W. B. Krohn, and R. B. Owen, Jr. 1993. Care, behavior, and growth of captive-reared American woodcocks. Pages 57-65 **IN** Longcore, J. R., and G. F. Sepik (editors). Proceedings 8<sup>th</sup> American Woodcock Symposium, U. S. Fish and Wildlife Service Biological Report 16, Washington, DC. 139pp.

- Vander Haegen, W. M., R. B. Owen, Jr., and W. B. Krohn. 1994. Metabolic rate of American woodcock. *Wilson Bulletin*, 106(2): 338-343.
- Krohn, W. B., S. M. Arthur, and T. F. Paragi. 1994. Mortality and vulnerability of a heavily trapped fisher population. Pages 137-145 (Chapter 8) **IN**: S. W. Buksirk, A. S. Harestad, M. G. Raphael, and R. A. Powell (editors). Martens, sables, and fishers: biology and conservation. Cornell University Press, Ithaca, NY. 484pp.
- Schooley, R. L., C. R. McLaughlin, G. J. Matula, Jr., and W. B. Krohn. 1994. Denning chronology of female black bears: effects of food, weather, and reproduction. *Journal of Mammalogy*, 75(2): 466-477.
- Paragi, T. F., S. M. Arthur, and W. B. Krohn. 1994. Seasonal and circadian patterns of female fishers, *Martes pennanti*, with kits. *Canadian Field-Naturalist*, 108(1): 52-57.
- Schooley, R. L., C. R. McLaughlin, W. B. Krohn, and G. J. Matula, Jr. 1994. Spatiotemporal patterns of macrohabitat use by female black bears during fall. *International Conference Bear Research and Management*, 9(1): 339-348.
- Paragi, T. F., W. B. Krohn, and S. M. Arthur. 1994. Using estimates of fisher recruitment and survival to estimate population trend. *Northeast Wildlife*, 51:1-11.
- Krohn, W. B., K. D. Elowe, and R. B. Boone. 1995. Relations among fishers, snow, and martens: development and evaluation of two hypotheses. *The Forestry Chronicle*, 71(1): 97-105.
- Blackwell, B. F., W. B. Krohn, and R. B. Allen. 1995. Foods of nestling Double-crested Cormorants in Penobscot Bay, Maine, USA: temporal and spatial comparisons. *Colonial Waterbirds*, 18(2): 199-208.
- Krohn, W. B., R. B. Allen, J. R. Moring, and A. E. Hutchinson. 1995. Double-crested cormorants in New England: population and management histories. Pages 99-109 **IN** D. N. Nettleship and D. C. Duffy (editors). The Double-crested Cormorant: biology, conservation, and management. Colonial Waterbirds 18 (Special Publication 1). 256pp.
- Paragi, T. F., S. M. Arthur, and W. B. Krohn. 1996. Importance of tree cavities as natal dens for fishers. *Northern Journal of Applied Forestry*, 13(2): 79-83.
- Krohn, W. B. 1996. Predicted vertebrate distributions from Gap Analysis: considerations in the designs of statewide accuracy assessments. Pages 147-162 **IN** J. M. Scott, T. H. Tear, and F. W. Davis (editors). Gap Analysis: a landscape approach to biodiversity planning. American Society of Photogrammetry and Remote Sensing, Bethesda, MD. 320pp.
- Eschholz, W. E., F. A. Servello, B. Griffith, K. S. Raymond, and W. B. Krohn. 1996. Winter use of glyphosate-treated clearcuts by moose in Maine. *Journal of Wildlife Management*, 60(4): 764-769.

Blackwell, B. F., and W. B. Krohn. 1997. Spring foraging distribution and habitat selection by Double-crested Cormorants on the Penobscot River, Maine, USA. *Colonial Waterbirds*, 20(1): 66-76.

Blackwell, B. F., W. B. Krohn, N. R. Dube, and A. J. Godin. 1997. Spring prey use by Double-crested Cormorants on the Penobscot River, Maine, USA. *Colonial Waterbirds*, 20(1): 77-86.

Frost, H. C., W. B. Krohn, and C. R. Wallace. 1997. Age-specific reproductive characteristics in fishers. *Journal of Mammology*, 78(2): 598-612.

Frost, H. C., and W. B. Krohn. 1997. Factors affecting the reproductive success of captive female fishers. Pages 100-109 **IN** G. Proulx, H. N. Bryant, and P. M. Woodard (editors). *Martes: taxonomy, ecology, techniques and management*. Provincial Museum of Alberta, Edmonton, Alberta, Canada. 474pp.

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Boone, R. B., and W. B. Krohn. 2000. Predicting broad-scale occurrences of vertebrates in patchy landscapes. *Landscape Ecology*, 15(1): 63-74.

Boone, R. B., and W. B. Krohn. 2000. Partitioning sources of variation in vertebrate species richness. *Journal of Biogeography*, 27:547-470.

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Boone, R. B., and W. B. Krohn. 2002. Introduction to Part 3 – Modeling tools and accuracy assessment. Pages 265-270 **IN** Scott, J. M., P. J. Heglund, M. Morrison, J. Haufler, and B. Wall (editors). Predicting species occurrences: issues of scale and accuracy. Island Press, Corvallis, OR. 868 pp.

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Johnson, C. M., and W. B. Krohn. 2002. Chapter 13 – Dynamic patterns of association between environmental factors and island use by breeding seabirds. Pages 171-181 **IN** Scott, J. M., P. J. Heglund, M. Morrison, J. Haufler, and B. Wall (editors). Predicting species occurrences: issues of scale and accuracy. Island Press, Corvallis, OR. 868 pp.

Schaefer, S. M., and W. B. Krohn. 2002. Chapter 37 - Testing predicted vertebrate occurrences from habitat associations: improving the interpretation of commission error rates . Pages 419-428 **IN** Scott, J. M., P. J. Heglund, M. Morrison, J. Haufler, and B. Wall (editors). Predicting species occurrences: issues of scale and accuracy. Island Press, Corvallis, OR. 868 pp.

Frost, H., and W. Krohn. 2004. Chapter 13 - Postnatal growth and development and growth in fishers. Pages 253-263 **IN** D. Harrison, A. Fuller, and G. Proulx (editors). Martens and fishers (*Martes*) in human altered environments: an international perspective. Springer, New York, NY. 279 pp.

Hoving, C. L., R. A. Joseph, and W. B. Krohn. 2003. Recent and historical distributions of Canada lynx in Maine and the Northeast. *Northeastern Naturalist*, 10 (4): 363-382.

Homyack, J. A., D. J. Harrison, and W. B. Krohn. 2004. Structural Differences between precommercially thinned and unthinned conifer stands. *Forest Ecology and Management*, 194 (1-3): 131-143.

Krohn, W., C. Hoving, D. Harrison, D. Phillips, and H. Frost. 2004. Chapter 5 - *Martes* foot-loading and snowfall distribution in eastern North America: implications to broad-scale distributions and interactions of mesocarnivores. Pages 115-131 **IN** D. Harrison, A. Fuller, and G. Proulx (editors). Martens and fishers (*Martes*) in human altered environments: an international perspective. Springer, New York, NY. 279 pp.

Proulx, G. K. Aubry, J. Birks, S. Buskirk, C. Fortin, H. Frost, W. Krohn, L. Mayo, V. Monakhov, D. Payer, M. Saeki, M. Santos-Reis, R. Weir, and W. Zielinski. 2004. Chapter 2 - World distribution and status of the genus *Martes* in 2000. Pages 21-76 **IN** D. Harrison, A. Fuller, and G. Proulx (editors). Martens and fishers (*Martes*) in human altered environments: an international perspective. Springer, New York, NY. 279 pp.

Hoving, C. L., D. J. Harrison, W. B. Krohn, W. J. Jakubas, and M. A. McCollough. 2004. Canada lynx *Lynx Canadensis* habitat and forest succession in northern Maine, USA. *Wildlife Biology*, 10(4):285-294.

Frost, H. C., W. B. Krohn, E. A. Bezembluk, R. Lott, and C. R. Wallace. 2005. Prenatal development in fishers (*Martes pennanti*). *Theriogenology* 63(5):1440-1453.

Homyack, J. A., D. J. Harrison, and W. B. Krohn, W. J. Jakubas, R. A. Joseph, and M. O'Brien. 2005. Broad-scale predictors of Canada lynx (*Lynx canadensis*) occurrence in eastern North America. *Journal of Wildlife Management* 69(2): 739-751.

Homyack, J. A., D. J. Harrison, J. A. Litvaitis, and W. B. Krohn. 2006. Quantifying densities of snowshoe hares in Maine using pellet plots. *Wildlife Society Bulletin* 34 (1):74-80.

Krohn, W. B. 2005. A fall fur-hunt from Maine to New Brunswick, Canada – the 1858 journal of Manly Hardy. *Northeastern Naturalist* 12 (4): 509-541.

Bahn, V., R. J. O'Connor, and W. B. Krohn. 2006. Effect of dispersal at range edges on the structure of species ranges. *Oikos* 115 (1): 89-96.

Bahn, V., R. J. O'Connor, and W. B. Krohn. 2006. Importance of spatial autocorrelation in modeling bird distributions at a continental scale. *Ecography* 29 (6): 835-844.

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Krohn, W. B., and M. R. Massaro. 2006. Fur into feathers: Manly Hardy and his collection of North American birds. Pages 117-133 **IN** P. Benes (editor), *New England Collectors and Collections -- The Dublin Seminar for New England Folklife, Annual Proceedings for 2004*, Boston University, Boston, MA. 224pp.

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Arthur, S. M., and W. B. Krohn. 1988. *An Annotated Bibliography of Predator Research in Maine, 1974-1988*. Maine Agricultural Experiment Station, Technical Bulletin 132, University of Maine, Orono. 62pp.

Krohn, W. B., P. O. Corr, and A. E. Hutchinson. 1992. *Status of the American Eider with Special Reference to Northern New England*. Fish and Wildlife Report No. 12, U.S. Fish and Wildlife Service, Washington, D.C. 12pp.

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Krohn, W. B. In Press. *Joshua Gross Rich (1820-1897): Western Maine Pioneer and Wildlife Writer*. Northeast Folklore Vol. 43, Maine Folklife Center, University of Maine, Orono.

### **Selected Reports, Presentations, and Abstracts**

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Mitchner, L. J., A. S. White, and W. B. Krohn. "Some characteristics of the presettlement forest of northern Maine." American Association of Geographers, 2008 Annual Meeting, Boston, MA. April 21, 2008.

Krohn, W. B. "Historical ecology of the white-tailed deer in Maine." Invited presentation to the Munsungan Workshop on Deer Wintering Areas in Maine, Maine Cooperative Forestry Research Unit, Stillwater, ME. December 10, 2007.

Harrison, D. J., W. B. Krohn, S. Scott, A. K. Fuller, L. Robinson, and C. L. Hoving. Stand-scale management to increase hare and lynx use of managed forests.” Invited presentation at a workshop on Bridging Science and Stewardship sponsored by the Maine Cooperative Forestry Research Unit, Brewer, ME. May 14, 2008.

Simons, E., D. J. Harrison, W. B. Krohn, K. Legaard, and S. Sader. “Landscape indicators of forest biodiversity: using American marten, Canada lynx, and snowshoe hares to evaluate retrospective trends in habitat supply across northern Maine.” Invited presentation at a workshop on Bridging Science and Stewardship sponsored by the Maine Cooperative Forestry Research Unit, Brewer, ME. May 14, 2008.

Fuller, A. K., D. J. Harrison, and W. B. Krohn. “Landscape planning initiative for northern Maine using area sensitive umbrella species.” Invited presentation to the USDA Natural Resources Conservation Service and U.S. Fish and Wildlife Service on workshop on their cooperative Healthy Forest Research Program, Bangor, ME. July 1, 2008.

Krohn, W. B., D. J. Harrison, S. A. Scott, L. L. Robinson, C. L. Hoving, A. K. Fuller, and E. M. Simons. “Variation in snowshoe hare densities as related to Canada lynx and forest management in eastern North America.” Eastern Canada/U.S.A. Forest Science Conference, University of Maine, Orono. October 17, 2008.

Simons, E. M., D. J. Harrison, W. B. Krohn, K. R. Legaard, and S. A. Sader. “Retrospective changes in habitat supply for Canada lynx and snowshoe hares resulting from timber harvesting: implications for lynx recovery. Fifteenth Annual Meeting of The Wildlife Society, Miami, FL. November 9, 2008.

### **Obituaries**

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### **Recent Awards and Recognitions**

Recipient of the 2006 Distinguished Wildlife Alumnus Award from the University of Maine Wildlife Alumni Association. This award is given annually to one graduate of the University of Maine’s wildlife program for long-term and significant contributions to the wildlife profession. April 26, 2006.

Since publication of the Manly Hardy book in 2005, nine reviews have appeared. All reviews were positive and outlets included newspapers (e.g., *Portland Sunday Telegram*, *Bangor Daily News*), sporting journals (*Northwoods Sporting Journal*, *The Trapper & Predator Caller*), and scholarly journals (*Maine History*, *Canadian Field-Naturalist*). The most recent review, written by the Richard McCabe, Vice President of the Wildlife Management Institute (WMI) -- an authority on the history of wildlife conservation in America -- concluded with: “*Manly Hardy (1832-1910)* ... holds plenty of interest for those who are curious about the underpinnings of conservation and the study of natural history. Bill Krohn is congratulated for resurrecting the writings and preserving the memory of an American original.” (*WMI Outdoor News Bulletin*, June 2008).

Received a Superior Performance Award in December 2007 from the U.S. Geological Survey’s Cooperative Unit Program for sustain research productivity, and for professional recognition of his research on forest carnivores.

In July 2008, recognized by the Department of Wildlife Ecology, University of Maine, with an Award of Professional Excellence for “...outstanding and long-term contributions to the wildlife profession and the conservation and management of natural resources.”

The Maine Chapter of The Wildlife Society presented Krohn, along with colleague Dr. D. J. Harrison, with the 2007 Award of Meritorious Service. The award was “In recognition of their outstanding contributions to understanding the influences of forest practices on the ecology of Canada lynx and snowshoe hare in Maine. Their collaborative, cutting-edge research is answering questions that are key to developing land-management strategies for these and other species in northern Maine’s working forests.” April 18, 2007.