

CAREER PUBLICATIONS

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Books

Middleton, B.A. 1999. Wetland restoration, flood pulsing and disturbance dynamics. John Wiley and Sons, New York.

Middleton, B.A. (editor). 2002. Flood pulsing in wetlands: restoring the natural hydrological balance. John Wiley and Sons, New York.

Dissertation/Theses

Middleton, B.A. 1989. Succession and goose herbivory in monsoonal wetlands of the Keoladeo National Park, Bharatpur, India. Ph.D. Dissertation, Iowa State University, Ames, IA.

Middleton, B.A. 1983. Sand movement and vegetation in the Apostle Islands, Lake Superior. M.S. Thesis. University of Minnesota, Duluth, MN.

Middleton, B.A. 1978. Vegetational response to grazing in sedge meadow and mesic forest communities in southern Wisconsin. Senior Thesis, University of Wisconsin, Madison, WI.

Peer Reviewed Journal Articles

Middleton, B.A. and D.J. Schimpf. 1986. Sand movement and vegetation in the Apostle Islands, Lake Superior. *Canadian Journal of Botany* 64:1671-1674.

Middleton, B.A. and A.G. van der Valk. 1987. The food habits of Greylag and Barheaded Geese at the Keoladeo National Park, India. *Wildfowl* 38:94-102.

Middleton, B.A. 1988. Food habits of geese in northern India. *Journal of the Ecological Society (India)* 1:37-45.

Middleton, B. A. 1990. Effect of water depth and clipping frequency on the growth and survival of four wetland plant species. *Aquatic Botany* 37: 189-196.

Middleton, B. A., A. G. van der Valk, R. L. Williams, D. J. Mason, and C. B. Davis. 1991. Vegetation dynamics and seed banks of a monsoonal wetland overgrown with *Paspalum distichum* in northern India. *Aquatic Botany* 40:239-259.

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- van der Valk, A. G., B. A. Middleton, R. L. Williams, D. H. Mason and C. Davis. 1993. The biomass of an Indian monsoonal wetland before and after being overgrown with *Paspalum distichum* L. *Vegetatio* 109:81-90.
- Middleton, B. A. 1994. Decomposition and litter production in a northern bald cypress swamp. *Journal of Vegetation Science* 5:271-274.
- Middleton, B. A. and E. Sanchez. 1994. Microhistological analysis of food habits in the tropics. *La Vida Sylvestre* 3:41-47.
- Middleton, B. A. 1994. Management of monsoonal wetlands for Greylag and Barheaded Geese in the Keoladeo National Park, India. *International Journal of Ecology and Environmental Sciences* 20:1263-171.
- Middleton, B. A. 1995. Sampling devices for the measurement of seed rain and hydrochory in rivers. *Bulletin of the Torrey Botanical Club* 122: 152-155.
- Middleton, B. A. 1995. Ecology of greenways. Book review. *Restoration Ecology* 3: 319-322.
- Middleton, B. A. 1995. Seed banks and species richness potential of coal slurry ponds reclaimed as wetlands. *Restoration Ecology* 3:311-318.
- Middleton, B. A. and U. Melkania. 1995. Decomposition of wet grassland species in a stream of the Himalayan terai, Pantnagar, Uttar Pradesh, India. *International Journal of Ecology and Environmental Sciences* 21:163-168.
- Middleton, B.A., E. Sanchez-Rojas, B. Suedmeyer and A. Michels. 1997. Fire in a tropical dry forest of Central America: A natural part of the disturbance regime? *Biotropica* 29:515-517.
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- Middleton, B.A., D. Gibson, and A. Lumpe. 1998. Trees in succession. Experiments to Teach Ecology, Volume II. Ecological Society of America. http://www.science.siu.edu/long-term/lessons/bmid_1.htm (peer-reviewed: update in 2003).
- Middleton, B.A. 1998. The water buffalo controversy in the Keoladeo National Park, India. *Ecological Modelling* 106: 93-95.
- Middleton, B.A. 1998. Reply to: The water buffalo controversy in the Keoladeo National Park, India. *Ecological Modelling* 106: 95-98.
- D.J. Gibson, B. A. Middleton and G.W. Saunders. 1999. Long-term succession studies for undergraduate research. *American Biology Teacher* 61: 217-222.
- Rice, M., B.A. Middleton and D. Gibson. 1999. Fractal analysis of movement pathways in vegetated and unvegetated microlandscapes. *Bios* 1: 176-184.
- Oyler, M., J. Rivera, M. Roffel, D. J. Gibson, B. A. Middleton and M. Mathis. 1999. The macaroni lab: a directed inquiry project on predator-prey relationships. *American Biology Teacher* 40: 39-41.
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- Middleton, B.A. 1999. Flood pulsing in restoration: a feasible alternative for India? *Journal of the Ecological Society* 12: 10-14.
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- Spyreas, G., D.J. Gibson, and B.A. Middleton. 2001. Effects of endophyte infection in tall fescue (*Festuca arundinacea*: Poaceae) on community diversity. *International Journal of Plant Science* 162:1237-1245.

- Middleton, B. A. 2002. Nonequilibrium dynamics of sedge meadows grazed by cattle in southern Wisconsin. *Plant Ecology* 161: 89-110.
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- Taylor, J. and B. A. Middleton. 2004. Functional comparison of litter decomposition in natural vs. coal slurry ponds reclaimed as wetlands. *Land Degradation and Development* 15:1-8.
- Middleton, B.A. and K.L. McKee. 2004. Use of a latitudinal gradient in bald cypress production to examine physiological controls on biotic boundaries and potential responses to environmental change. *Global Ecology and Biogeography* 13: 247-258.
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- Middleton, B.A. Concepts in restoration. *Restoration Ecology* (accepted for a special edition on restoration in India).
- Middleton, B.A. and J. Grace. Biodiversity and ecosystem functioning: synthesis and perspectives (book review). *Restoration Ecology* (accepted).

Sengupta, R., B. Middleton, C. Yan, M. Zuro and H. Hartman. Propagule deposition and landscape characteristics of source forests of *Rhizophora mangle* in coastal landscapes in Florida. *Landscape Ecology* (in press).

Book Chapters

Middleton, B.A. 2002. Flood pulsing in the regeneration and maintenance of species in riverine forested wetlands of the southeastern United States. Pages 223-294 in B. Middleton, editor. Flood pulsing in wetlands: restoring the natural hydrological balance. John Wiley and Sons, New York.

Middleton, B.A. 2002. Introduction to the flood pulse concept and its general importance to wetland restoration. Pages 1-10 in B. Middleton, editor. Flood pulsing and wetland restoration: Case histories from North America. Flood pulsing in wetlands: restoring the natural hydrological balance. John Wiley and Sons, New York.

Middleton, B.A. 2003. Ecology and objective based management: case study of the Keoladeo National Park, Bharatpur, Rajasthan. Pages 86-116 in Battles Over Nature: Science and the Politics of Conservation. V. Saberwal and M. Rangarajan, editors. Permanent Black Publishers, New Delhi, India.

Brinson, M., B. Bedford, B. Middleton, and J. Verhoeven. 2004. Temperate freshwater wetlands. Book Chapter. Cambridge University Press (in press).

Proceedings

Middleton, B.A. 1980. Human traffic and response of beach vegetation at the Apostle Islands. *Proceedings of the 2nd Conference on Scientific Research in the National Parks* 9:118-140.

Middleton, B. A. 1996. Characteristics of plants in forested wetlands. Pages 31-37 *In: S. D. Roberts and R. A. Rathfon, editors. Management of Forested Wetlands in the Central Hardwoods Region. Symposium Proceedings, Purdue University, West Lafayette, IN.*

Xiao, N, Bennett, D., B. A. Middleton, and K. Fessel. 1999. A topographically-based model for seed dispersal and swamp dynamics. *Proceedings of GIS/LIS '98. Fort Worth, TX, 10-12, November 1998.*

Reports and Maps

Davis, C.B., A.G. van der Valk, D.H. Mason, B.A. Middleton, and R.L. Williams. 1988. Ecology of a semitropical monsoonal wetland in India. Final Report, Smithsonian #4013600, Ohio State Univ, Ohio.

- Middleton, B. A. 1993. Restoration of cypress swamps along the Cache River, southern Illinois. Final Report to the Office of Research and Administration Development (#2-11770), Carbondale, IL.
- Middleton, B. A. 1993. Improvement of plant diversity in coal slurry ponds reclaimed as wetlands through treatment of the seed bank during drawdown. Final Report to the National Mine Land Reclamation Center, Carbondale, IL.
- Middleton, B. A. 1995. The role of flooding in seed dispersal: restoration of cypress swamps along the Cache River, Illinois. Final Report, U.S. Geological Survey and Water Resources Center, ULLU-URC-94-220.
- Starr, E. and B. A. Middleton. 1999. Vegetation overlay of the cypress quad. (Mapping project in ArcInfo as part of the larger project, "A natural resources survey of the Cache River Watershed). Natural Resources Conservation Service, Champaign/Carbondale, IL".
- O'Neil, L.J., A.C. Webb, and B. Middleton. 2001. Habitat suitability index model: cypress/tupelo community in southern Illinois. February 2001. ERDC/EL TR-01-xx, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- Bennett, D., B. Middleton, S. Kraft, C. Lant, R. Sengupta, J. Beaulieu, D. Sharpe, K. Cook, B. Burr, R. Beck, and K. Flanagan. 2001. Ecosystem function and restoration in the Cache River Bioserve. April 2001. Southern Illinois Field Office of the Nature Conservancy, Ullin, Illinois.

Fact Sheets

- Middleton, B.A. and K. L. McKee. 2004. Latitudinal variation in carbon storage to predict future changes in baldcypress swamps with global warming. National Wetlands Research Center Fact Sheet (in press).
- Middleton, B.A. 2004. Long-term changes in sedge meadows due to cattle grazing. National Wetlands Research Center Fact Sheet (in press).
- Middleton, B.A. 2004. Natural restoration basics. National Wetlands Research Center Fact Sheet (internal review).

Popular Press Publications

- Middleton, B. A. and L. K. Mudgal. 1989. Geese of the Keoladeo. Sanctuary Magazine, Bombay, India.

Middleton, B. A. 1995. Wetlands in your neighborhood. Green Earth Newsletter, Carbondale, IL.

Middleton, B. A. 1997. OTS at SIU. Liana (Newsletter of the Organization of Tropical Studies).

Middleton, B.A. 2000. Ode to my father's farm truck. National Public Radio Commentary, Carbondale, Illinois (commentary read on October 26, 2000).

Middleton, B.A. 2001. Special ode to my father's farm truck. Lodi Enterprise. January 4, 2001.

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Middleton, B.A. Return to Východ. Submitted to Natural History.

ARTICLES SUBMITTED/IN PREPARATION FOR PUBLICATION

Ture, C., N. Akanil Bingol, B. A. Middleton. Characterization of the gap environment of *Lythrum salicaria* L. and its relationship to seed production and stem height along arid rivers dominated by *Populus alba* L. in Turkey. *Wetlands* (under revision).

Conrad, S., B.A. Middleton and B. Crandall-Stotler. Reproductive ecology and diaspore bank for the bryophytes along the elevational gradient of a bald cypress swamp and old field. *Wetlands* (under revision).

Middleton, B.A. Flood pulsing and regeneration dynamics: relevance in Asian wetland restoration. *Landscape Ecology* (submitted).

Bhattacharyya, S., A. Lumpe, D. Gibson and B. Middleton. The significance of proper research design: a critical evaluation of existing strategy used in inquiry-based long-term field experience for undergraduate science courses; validating inquiry methods: an evaluation of an inquiry-based long-term field experiment for undergraduate science course. *American Biology Teacher* (submitted).

Middleton, B.A., D.J. Gibson, and A. Lumpe. Trees in succession: developing science observation skills and challenging misconceptions. <http://www.ecoed.net/tiee/exps/vol2/fastplants/fastplants.shtml>. *American Biology Teacher* (submitted).

Gibson, D.J., B.A. Middleton, K. Foster, Y.A. Honu, E. Hoyer, and M. Mathis. Core and satellite dynamics in response to disturbance and fertilization during early old-field succession (in preparation).

- Middleton, B.A. and X. Ben Wu. Regional spatial patterns of seed banks of baldcypress swamps at the northern extreme of the Mississippi River Alluvial Valley (in preparation).
- Ture, C., N. Bingol, and B.A. Middleton. Taxonomic and phenological characteristics of *Lythrum salicaria* in Turkey (in preparation).
- Thomas, J.R., D.J. Gibson, and B.A. Middleton. Water dispersal of vegetative bulbils of the invasive exotic *Dioscorea oppositifolia* in southern Illinois. (Journal of the Torrey Botanical Club: submitted).
- Thomas, J.R., B.A. Middleton and D.J. Gibson. Longevity, viability, and germination of vegetative bulbils of the invasive exotic *Dioscorea oppositifolia* in southern Illinois. (Biological Invasions: in preparation).
- Thomas, J.R., B.A. Middleton and D.J. Gibson. A landscape perspective of distribution and habitat of an invasive exotic *Dioscorea oppositifolia* in southern Illinois. (Diversity and Distributions: in preparation).
- Honu, Y.A.K., D.J. Gibson, and B.A. Middleton. Performance of *Tridens flavus* (L.) A.S. Hitchc. (purpletop) in heterogenous soil nutrient and disturbance regimes in an early successional old field. (in preparation).
- Fessel, K.E. and B.A. Middleton. Effects of sediment load, hydrology, and light intensity on seedling emergence from the seed banks of a *Taxodium distichum* swamp, Illinois, USA. (in preparation).