

Vita

Timothy Olin Matson
Curator and Head
Department of Vertebrate Zoology
Cleveland Museum of Natural History

1 Wade Oval, University Circle
Cleveland OH 44106
216.231.4600 ex. 3247
e-mail tmatson@cmnh.org

EDUCATION

Kent State University, Kent, OH. Ph.D. in ecology, 1988.

Central Michigan University, Mt. Pleasant, MI. B.S. in biology, 1970; M.S. in biology, 1974.

PUBLICATIONS

- Downs, F.L., T.O. Matson, and R.A. Pfingsten.** 2013. Key to Ohio's Larval Salamanders. *In* Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn, and B.J. Armitage (editors). Amphibians of Ohio. Ohio Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.
- Matson, T.O.** 2013. Common Mudpuppy, *Necturus maculosus* (Rafinesque, 1818). *In* Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn, and B.J. Armitage (editors). Amphibians of Ohio. Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.
- _____. 2013. Cope's Gray Treefrog *Hyla chrysoscelis* Cope 1880 and Gray Treefrog *Hyla versicolor* LeConte 1825. *In* Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn and B.J. Armitage (editors). Amphibians of Ohio. Ohio Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.
- _____. 2013. Jefferson Salamander, *Ambystoma jeffersonianum* (Green, 1827). *In* Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn, and B.J. Armitage (editors). Amphibians of Ohio. Ohio Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.
- _____. AmphibiaWeb: Information on amphibian biology and conservation. *Necturus maculosus* (Rafinesque, 1818). Berkley, California. <http://amphibiaweb.org/>.
- _____. 2005. *Necturus maculosus* (Rafinesque, 1818). *In* Michael J. Lannoo, editor, Status and conservation of U.S. Amphibians. U. of California Press.
- _____. 1998. Evidence for home ranges in mudpuppies and implications for impact due to episodic applications of the lampricide TFM. *In* Michael J. Lannoo, Status and Conservation of Midwestern Amphibians. U. of Iowa Press.
- _____. 1990. Erythrocyte size as a taxonomic character in the identification of Ohio *Hyla chrysoscelis* and *H. versicolor*. *Herpetologica* 46:457-462.
- _____. 1990. A morphometric comparison of gray treefrogs, *Hyla chrysocelis* and *H. versicolor*, from Ohio. *Ohio J. Sci.* 90:98-101.
- _____. 1990. Estimation of numbers for a riverine *Necturus* population before and after TFM lampricide exposure. *Kirtlandia* 45:33-38.
- _____. 1985. An inventory of the vertebrates of the Grand River Terraces, Ashtabula County, Ohio. *Kirtlandia* 41: 15-21.
- _____. 1978. Lipid depositioin in the House Sparrow and Red-winged Blackbird. *Kirtlandia* 25. 8p.
- _____. 1978. Lipid depositioin in the nestlings of the House Sparrow and Red-winged Blackbird. *Kirtlandia* 26. 8p.
- Matson, T.O. and G.J. Lipps, Jr.** 2013. Section IX. Amphibian Conservation. *In* Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn, and B.J. Armitage (editors). Amphibians of Ohio. Ohio Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.
- Matson, T.O. and G.J. Lipps, Jr.** 2013. Section IX. Amphibian Sytematics. *In* Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn, and B.J. Armitage (editors). Amphibians of Ohio. Ohio Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.

- Matson, T. O., R. L. Muehlheim, and J. C. Spetz.** 2004. Survey of fishes, amphibians, and reptiles of the Conneaut Creek Drainage System, Ashtabula County, Ohio. *Kirtlandia* 54:1-32.
- Matson, T.O., R.A. Pfingsten, R.D. Davic, T.M. Pucci.** 2010. Reexamination of new state record for *Desmognathus monticola* (Seal Salamander) from Ohio. *Herpetological Review* 41:17-18.
- McLean, E. B., A. White, and T. O. Matson.** 1995. Smooth-billed Ani in Ohio. *The Ohio J. Sci.* 95:335-336.
- Muehlheim, R.L. and T.O. Matson.** 2015. Ranavirus in three species of amphibian and unisexual *Ambystoma*. *Herpetological Review* 46(2): 200-201.
- Pfingsten, R.A. and T.O. Matson.** 2013. Key to Ohio's Adult Salamanders. In Pfingsten, R.A., J.G. Davis, T.O. Matson, G.J. Lipps, Jr., D. Wynn, and B.J. Armitage (editors). *Amphibians of Ohio*. Ohio Biological Survey Bulletin New Series. Volume 17 Number 1. XIV + 899 p.
- Pfingsten, R. A. and T. O. Matson.** 2003. Ohio Salamander Atlas. Ohio Biological Survey Miscellaneous Contributions Number 9. iv + 32 p.
- Quinn, E.M. and T.O. Matson.** 2011. Population trends of three congeners of mole salamanders (*Ambystoma*) at an isolated pond in northeast Ohio. *Ohio Biological Survey Notes* 3:1-9.

TECHNICAL REPORTS (unpublished)

- Bissell, J. K. and T.O. Matson. 1990. A survey of the flora and fauna of Luce Creek Ravine, Hunting Valley, Cuyahoga County, Ohio. Cleveland Museum of Natural History.
- Filler, S. E. and T.O. Matson. 2000. A survey of the aquatic invertebrates living within a drift-fenced seasonal ambystomatid breeding pond. Ohio Biological Survey.
- Matson, T. O. 2012. Amphibian Declines in Northeast Ohio. Ohio Department of Natural Resources Division of Wildlife, Geauga Park District, MetroParks Serving Summit County, Cleveland Museum of Natural History.
- _____. 2011. Declining Amphibians in Northeastern Ohio, A look at Pathogenic Bacteria, Chytrid, and Potentially Toxic Metals. (an update of the 2009 report incorporating the last outstanding data received from a laboratory).
- _____. 2009. Declining Amphibians in Northeastern Ohio, A look at Pathogenic Bacteria, Chytrid, and Potentially Toxic Metals.
- _____. 2008. Effects of Metals and High Water Hardness at Higher pHs on *Rana sylvatica* and *Ambystoma jeffersonianum*. Geauga Park District and The Sears-Swetland Family Foundation.
- _____. 2005. Morphometric comparisons of the larvae of *Ambystoma laterale*, *A. texanum*, and their hybrids. The Eppley Foundation For Research and the Ohio Department of Natural Resources, Division of Wildlife.
- _____. 2002. Amphibian surveys in Lake Erie Coastal Wetlands A Second Look. Ohio Department of Natural Resources, Division of Wildlife.
- _____. 2000. Survey of the amphibians of the Cleveland Hopkins International Airport. Environment & Archaeology, LLC.
- _____. 1998. Amphibian surveys in Lake Erie Coastal Wetlands. Ohio Department of Natural Resources, Division of Wildlife.
- _____. 1993. Inventory of the amphibians, reptiles, and mammals of Groves Woods, Trumbull County, Ohio. Cleveland Museum of Natural History.
- _____. 1993. Inventory of the amphibians, reptiles, and mammals of Cottonwood Hollow, Lake County, Ohio. Cleveland Museum of Natural History.
- _____. 1991. Lorain Central Corridor Project (ODOT) Biological Resources **B**Amphibians and Reptiles. Phase II/Feasible Alternatives Segment. Ohio Department of Transportation.
- _____. 1987. The effects of TFM on the Grand River mudpuppy population. Ohio Department of Natural Resources, Division of Wildlife.

_____.1977. A survey of the amphibians, reptiles, and mammals of Fern Lake. Ohio Biological Survey.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

Matson, T. O. 2014. Status of Anurans in Ohio. FrogWatch USA.

_____.2012. Peter Pan may be down, but not out: the Status of the Common Mudpuppy in the Grand River. Sixth Ohio Amphibian Conference.

_____.2008. The Good, the Bad, and the Ugly: the Status of Mudpuppies in Our Local Streams. 5th Annual Conservation Symposium Series, Cleveland Museum of Natural History.

_____.2008. Some factors causing local amphibian declines in Northeastern Ohio. Fifth Ohio Amphibian Conference.

_____.2005. Salamander Population Declines in a Northeastern Ohio Amphibian Community. Third Annual Conservation Symposium Series, Cleveland Museum of Natural History.

_____.2004. Amphibians of Mentor Marsh and Their Usage of Mitigation Wetlands. Fourth Ohio Amphibian Conference.

_____.2001. Results of a seven-year study of ambystomatid salamanders at an isolated Ohio breeding pond. 62nd Midwest Fish & Wildlife Conference.

_____.1999. Amphibians of the Ohio Coastal Wetlands. Third Ohio Declining Amphibian Population Task Force meeting.

_____.1999. Amphibians of the Ohio Coastal Wetlands. Ohio Division of Wildlife Diversity Conference.

_____.1994. Decline of the mudpuppy resulting from episodic application of the lampricide TFM. Central Midwest Division, Declining Amphibian Populations Task Force Annual Meeting and 56th Midwest Fish and Wildlife Conference Annual Meeting.

_____.1990. Estimation of numbers for a riverine *Necturus* population before and after TFM lampricide exposure. 1990. 52nd Midwest Fish and Wildlife Conference Annual Meeting.

_____.1987. The effects of TFM on the Grand River mudpuppy population. Ohio Department of Natural Resources, Division of Wildlife Nongame Conference.

CURRENT RESEARCH

Ecotoxicological studies of cations and toxicity levels in ponds in northeastern Ohio.

Monitoring naturally occurring and planted amphibian populations in excavated mitigation wetlands at Mentor Marsh, Lake County, Ohio.

Survey of the fishes, amphibians and reptiles of the Ashtabula River and Pymatuning Creek drainage systems.

Vertebrate surveys on Cleveland Museum of Natural History natural areas.

Effects of the lampricide TFM on the Mudpuppy in the Grand River and Conneaut Creek, Ohio.

Parasitic effects of the copepod *Learnea* on the Bullfrog and the fluke *Ribeiroia* on the hybrid *Ambystoma texanum x laterale*.