

# Michael J. Wilberg

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## Education:

- Ph.D. – Michigan State University, 2005
- M.S. – University of Wisconsin-Stevens Point, 2000
- B.S. – Michigan State University, 1997

## Experience:

- Assistant professor, Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, Solomons, MD. 2006 – present.
- Visiting assistant professor, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI. 2005 – 2006.

## Research Interests:

Fisheries management; application, development, and evaluation of stock assessment methods; fisheries population dynamics; decision analysis; statistical estimation and modeling in ecology; ecosystem-based management

## **Selected Peer-Reviewed Publications:**

- Wilberg, M. J., B. J. Irwin, M. L. Jones, and J. R. Bence. 2008. Effects of source-sink dynamics on harvest policy performance for yellow perch in southern Lake Michigan. *Fish. Res.* 94:267-281.
- Irwin, B. J., M. J. Wilberg, J. R. Bence, M. L. Jones. 2008. Evaluation of harvest policy performance for yellow perch in southern Lake Michigan. *Fish. Res.* 94: 282-289.
- Wilberg, M. J., and J. R. Bence. 2008. Performance of deviance information criterion model selection criteria in statistical catch-at-age analysis. *Fish. Res.* 93:212-221.
- Wagner, T., D. Hayes, J. R. Bence, M. Bremigan, and M. J. Wilberg. 2007. Regional trends in fish mean length at age: components of variance and the power to detect trends. *Can. J. Fish. Aquat. Sci.* 64: 968-978.
- Wilberg, M. J., and T. J. Miller. 2007. Comment on “Impacts of biodiversity loss on ocean ecosystem services”. *Science* 316; 1285b.

- Nesslage, G. M., M. J. Wilberg, and S. J. Riley. 2006. Rates and spatial patterns of decline in historical cougar and wolf populations in Montana. *Intermountain Journal of Science* 12: 63-76.
- Wilberg, M. J., and J. R. Bence. 2006. Performance of time-varying catchability estimators in statistical catch-at-age analysis. *Can. J. Fish. Aquat. Sci.* 63:2275-2285.
- Wilberg, M. J., J. R. Bence, B. Eggold, D. Makauskas, and D. Clapp. 2005. Dynamics of yellow perch in southwestern Lake Michigan during 1986-2002. *N. Am. J. Fish. Manage.* 25:1130-1152.
- Wilberg, M. J., and B. P. Dreher. 2004. GENECAP: a program for analysis of multilocus genotype data for non-invasive sampling and capture-recapture population estimation. *Molecular Ecology Notes* 4:783-785.
- Wilberg, M. J., C. R. Bronte, and M. J. Hansen. 2004. Fleet dynamics of the commercial lake trout fishery in Michigan waters of Lake Superior during 1929-1961. *Journal of Great Lakes Research* 30:252-266.
- Wilberg, M. J., M. J. Hansen, and C. R. Bronte. 2003. Historic and modern abundance of wild lean lake trout in Michigan waters of Lake Superior: implications for restoration. *N. Am. J. Fish. Manage.* 23:100-108.

### **Synergistic Activities:**

Member of the Mid-Atlantic Fisheries Management Council Scientific and Statistical Committee; Member of Maryland Department of Natural Resources Stock Monitoring and Assessment Task Force; Instructor for courses on population dynamics and stock assessment, fisheries science and management, and several short courses on computer programming and stock assessment techniques; Expert reviewer for several stock assessments of commercially and recreationally important species; MEES Fisheries Area of Specialization member.

### **Collaborators and Co-editors (non-UMCES during the last 5 years)**

J.R. Bence, Michigan State University; M. Bremigan, Michigan State University; C.R. Bronte, U.S. FWS; D.F. Clapp, Michigan Department of Natural Resources; B.P. Dreher, Colorado Department of Fish and Game; B. Eggold, Wisconsin Department of Natural Resources; M.J. Hansen, University of Wisconsin-Stevens Point; D. Hayes, Michigan State University; Brian Irwin, Michigan State University; M. Jones, Michigan State University; D. Makauskas, Illinois Department of Natural Resources; G. Nesslage, Atlantic States Marine Fisheries Commission; A. Peters, Michigan State University; W. Rickkus, Versar Inc.; S.J. Riley, Michigan State University; W. Slacum, Versar Inc.; H. Townsend, NOAA; T. Wagner, Pennsylvania State University; E. Weber, Versar Inc.