

BIOGRAPHICAL SKETCH

Dr. Marianne V. Moore
Wellesley College
Department of Biological Sciences, 106 Central Street,
Wellesley, MA 02481-8203
Ph: (781) 283-3098; mmoore@wellesley.edu

Education:

Colorado College	Biology	B.A.	1975
Iowa State University	Limnology	M.S.	1977
Dartmouth College	Aquatic Ecology	Ph.D.	1986

Employment:

2014 - current Frost Professor in Environmental Science, Wellesley College
2012 – current Professor, Wellesley College, Dept. Biological Sciences
1997-2012 Associate Professor, Wellesley College, Dept. Biological Sciences
1988-1996 Assistant Professor, Wellesley College, Dept. Biological Sciences
1986-88 Postdoctoral Fellow, Miami University, Zoology Department

Research Interests: Climate change and lake ecosystems; interactive effects of climate change and anthropogenic stressors; urban light pollution; lake food webs; zooplankton ecology

Recent Publications Most Closely Related to Current Research: *student coauthor

Katz, S.L., L.R. Izmet'eva, S.E. Hampton, T. Ozersky, K. Shchapov, **M.V. Moore**, S.V. Shimaraeva, and E.A. Silow. 2015. The “Melosira years” of Lake Baikal: Winter environmental conditions at ice onset predict under-ice algal blooms in spring. *Limnology and Oceanography*. doi: 10.1002/lno.10143

Hampton, S.E., D.K. Gray, L.R. Izmet'eva, **M.V. Moore**, T. Ozersky. 2014. The rise and fall of plankton: long-term changes in the vertical distribution of algae and grazers in Lake Baikal, Siberia. *PLoS ONE*: 9(2): e88920. doi:10.1371/journal.pone.0088920

Moore, M.V., *Bego K., *Brown C., *Coogan R., *Fuiks A., *Hernandez Y., *Jordan K., *Mironciuc E., *Mutschlecner, A., *Ruhl, M., *Ruhl, R., *Uhrain, N., *Shchapov, K., *Shupruto, V., *Titova, L., Hodge, T., and Rodenhouse, N. 2012. Coupling of the littoral and pelagic food webs of Lake Baikal. *Vestnik IRGSKhA* (Proceedings of Herald of the Irkutsk State Agricultural Academy) 47:80-88.

Moore, M.V., S.E. Hampton, L.R. Izmet'eva, E.V. Peshkova, and E.A. Silow. 2009. Climate change and the world's “Sacred Sea” – Lake Baikal, Siberia. *BioScience* 59:405-417.

Hampton S.E., L.R. Izmet'eva, **M.V. Moore**, S.L. Katz, B. Dennis, E.A. Silow. 2008. Sixty years of environmental change in the world's largest freshwater lake – Lake Baikal, Siberia. *Global Change Biology* 14: 1947-1958. doi:10.1111/j.1365-2486.2008.01616.x

Other Significant Publications:

Ozersky, T. and **M.V. Moore**. 2013. Fostering dialogue between Russian early-career aquatic scientists and the public. *Limnology and Oceanography Bulletin* 22:112-113.

- Moore, M.V.**, S.J. Kohler, and M. Cheers*. 2006. Artificial light at night in freshwater habitats and its potential ecological effects. Pages 365-384. *In* C. Rich and T. Longcore [eds.], Ecological consequences of artificial night lighting. Island Press, Washington, D.C., USA.
- Jung*, J., C. Hojnowski*, H. Jenkins*, A. Ortiz*, C. Brinkley*, L. Cadish*, A. Evans*, P. Kissinger*, L. Ordal*, S. Osipova*, A. Smith*, B. Vredeveld*, T. Hodge, S. Kohler, N. Rodenhouse, and **M. Moore**. 2004. Diel vertical migration of zooplankton in Lake Baikal and its relationship to body size. Pages 131-140. *In* A.I. Smirnov and L.R. Izmet'eva, editors. Ecosystems and Natural Resources of Mountain Regions. "Nauka", Novosibirsk, Russia.
- Folt, C.L., C.Y. Chen, **M.V. Moore** and J. Burnaford. 1999. Synergism and antagonism among multiple stressors. *Limnology and Oceanography*. 44:864-877.
- Moore, M.V.**, M.L. Pace, J.R. Mather, P.S. Murdoch, R.W. Howarth, C.Y. Chen, P.A. Flebbe, C.L., Folt, H.F. Hemond, and C.T. Driscoll. 1997. Potential effects of climate change on freshwater ecosystems of the New England/MidAtlantic region. *Hydrological Processes* 11:925-947.
- Moore, M.V.** and C.L. Folt. 1993. Zooplankton body size and community structure: effects of thermal and toxicant stress. *Trends in Ecology and Evolution* 8:178-183.

Awards:

- 2015 Ramón Margalef Award for Excellence in Education, Association for the Sciences of Limnology and Oceanography.
- 2000 Apgar Teaching Award for innovation & creativity in teaching, Wellesley College
- 1999 Pinanski Prize for Teaching Excellence, Wellesley College

Synergistic Activities:

- Co-leader and Co-Principal Investigator of a large collaborative research project about plankton biodiversity at Lake Baikal. Involves 5 USA universities and a Russian university. 2011-2016.
- Principal scientific adviser for IMAX film about Lake Baikal. 2011 - ongoing.
- Created and co-led NCEAS-funded working group composed of Russian and American scientists that resulted in multiple publications about Lake Baikal and global change. 2005-2012.
- Co-developed undergraduate educational program in limnology and Russian culture taught onsite at Lake Baikal, Siberia to American and Russian students. 2000 - ongoing.

External Grant Proposals (2006-2015 only):

- 2011-16 US National Science Foundation - DIMENSIONS OF BIODIVERSITY, Collaborative Research: *Lake Baikal responses to global change: the role of genetic, functional and taxonomic diversity in the plankton*". \$1,999,917 (\$441,541, Wellesley College portion of proposal). Co-authored with 4 other collaborators.
- National Center for Ecological Analysis and Synthesis, UC, Santa Barbara, CA--*The 60-year data set of plankton dynamics in Lake Baikal: Examining facets of the jewel of Siberia*. \$36,030. Coauthored with 2 other collaborators.

Reviewing:

- Associate Editor, *Inland Waters* (2010-current); Editorial Board member *Environmental Pollution* (1993-2004).