

## **MARK V. LOMOLINO**

**Career Interests:** My research focuses on biogeography, ecology, evolution and conservation biology. I am especially interested in processes influencing the diversity and conservation of endangered species. My research combines empirical and theoretical approaches across a broad range of scales to explore patterns in the geography of nature and to develop effective strategies for conserving biological diversity. I thoroughly enjoy teaching a variety of courses, and advising and interacting with students interested in biology, ecology and conservation biology.

### **Professional Experience:**

2004 – present. Professor (2003 to 2004 – Associate Professor), (2001 to 2003 – Assistant Professor), Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, NY.  
2004 – 2005. Donlon Scholar in Applied Ecology and Conservation Biology. SUNY College of Environmental Science and Forestry, Syracuse, NY.  
2003 to 2005 – President, International Biogeography Society.  
2001 – Tenured Professor, Department of Zoology and Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, University Of Oklahoma, Norman, OK  
1997 to 2000 – Associate Professor, Department of Zoology and Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, University Of Oklahoma, Norman, OK  
1992 to 1997 – Assistant Professor, Department of Zoology and Oklahoma Natural Heritage Inventory, Oklahoma Biological Survey, University Of Oklahoma, Norman, OK  
1990 to 1992 – Assistant Professor, Department of Biology, Penn State University – Altoona Campus, Altoona, PA  
1986 to 1990 – Adjunct Assistant Professor, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ  
1979 to 1980 - Wildlife Biologist, U.S. Fish and Wildlife Service, Cortland, NY  
1976 to 1977 - Biological Assistant, U.S. Fish and Wildlife Service, National Fish and Wildlife Laboratory, Gainesville, FL.

### **Personal Information:**

Born September 20, 1953. Married with three children.  
Office Phone: (315) 470-6805 Email: island@esf.edu Home Phone: (315) 672-8215

### **Education:**

Ph.D., Department of Biology, State University of New York at Binghamton, 1983. "Island biogeography, immigrant selection, and mammalian body size on islands." (Dissertation Advisor - John Jaenike)  
M.S., Department of Wildlife Biology, School of Forestry, University of Florida, 1977. "Ecological role of manatee herbivory in waterhyacinth-dominated communities." (Thesis Advisor - Katherine C. Ewel)  
B.S., Department of Biology, State University of New York at Cortland, 1975.

### **External Research Support:**

PI - M. V. Lomolino, Co-investigator, G. A. Smith. Ecological Survey of Birds at the Washita Battlefield National Site, Oklahoma. National Park Service, \$20,000, June, 2001 to December, 2004.  
PI - M. V. Lomolino, Co-investigator, G. A. Smith. Ecological Survey of Mammals and Reptiles at the Washita Battlefield National Site, Oklahoma. National Park Service, \$15,000, June, 2000 to December, 2001.  
PIs - M. V. Lomolino, D. F. Sax and J. H. Brown. Foundations and Future of Biogeography: Funding to compile seminal papers on biogeography into a book, *Foundations of Biogeography*, to be published by University of Chicago Press; to organize an *International Biogeography Society*; and to plan several working groups on biogeography and large-scale ecology. National Center for Ecological Analysis and Synthesis, National Science Foundation. \$27,000, 2000 and 2001.  
PIs - J. Gittleman and M. L. McKinney. Working Group Member - MVL: "Phylogeny and Conservation: Problems in the Quantification of Biodiversity." National Center for Ecological Analysis and Synthesis (NSF, UC Santa Barbara, and the State of California). 1999 to 2001. Total Funding \$118,180 (\$7,380 for MVL).

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- PI – M. V. Lomolino, REU Supplements: “Biogeography and Biodiversity of Prairie Dog Towns.” National Science Foundation, DEB – Ecological Studies Cluster, 1998 to 1999. \$6,000; 1999 to 2000, \$5,000.
- PI – M. V. Lomolino, Corridors and Connectivity of a Fragmented Landscape, Olympic National Forest. National Science Foundation, DEB – Ecological Studies Cluster, 1997 to 1998. \$26,460.
- PI – M. V. Lomolino, “Biogeography and Biodiversity of Prairie Dog Towns.” National Science Foundation, DEB – Ecological Studies Cluster, 1996 to 2000. \$211,564.
- PI – M. V. Lomolino, “Conservation of Mammals Inhabiting Fragmented Old-growth Forests of the Olympic Peninsula.” National Science Foundation, DEB – Ecological Studies Cluster. 1994 to 1996. \$65,000.
- PI – M. V. Lomolino, “Ecology and Status of the Swift Fox (*Vulpes velox*) in Oklahoma.” USFWS and Oklahoma Department of Wildlife Conservation, 1994 to 1997. \$52,000.
- PI – M. V. Lomolino, “Ecology of the Swift Fox in Oklahoma.” National Biological Service, 1996. \$6,000.
- PI – M. V. Lomolino, “Development of Animal Distribution Layer for Oklahoma GAP Analysis.” National Geological Survey – Biotic Resources, 1994 to 1997. \$55,000.
- Supplement to GAP Analysis: 1998 to 1999. \$7,000
  - Supplement to GAP Analysis: 1997 - 1998. \$17,424.
  - Supplement to GAP Analysis: 1995. \$2,600.
- PI – M. V. Lomolino, “Ecology and Conservation of Mammal Communities in Fragmented, Tropical Rainforests of Brazil.” Smithsonian Institution BDFPP (1994; \$3,600).
- PI – M. V. Lomolino, “Surveys for the Endangered American Burying Beetle and Mammals in the Tiak District of Ouachita National Forest.” U.S. Fish and Wildlife Service, 1994. \$5,600.
- PI – M. V. Lomolino, Initial Survey for Rare Species of Amphibians and Reptiles of the TIAK District of Ouachita National Forest. U.S. Forest Service. 1993. \$4,550.
- PI – M. V. Lomolino, Habitat Use and Genetic Characterization of the American Burying Beetle. Oklahoma Department Of Wildlife Conservation. 1992 to 1994. With Co-PI, J. Curtis Creighton. \$38,000.
- PI – M. V. Lomolino, Biological Survey of Vance AFB and Kegelman Auxiliary Air Field. The Nature Conservancy. 1993-1995. \$32,667. G. D. Schnell, PI.
- PI – M. V. Lomolino, Survey of Threatened or Endangered Species for the Oklahoma Department of Transportation. Oklahoma Department of Transportation. 1993. \$30,000. G. D. Schnell, PI.
- PI – G. D. Schnell, Co PI - M. V. Lomolino, “Intensive Survey for American Burying Beetles at Fort Chaffee, Arkansas.” U. S. Army. \$22,612 (with Schnell and Creighton). 1992.
- PI – M. V. Lomolino, “Survey for Rare and Endangered Species at McAlester Army Ammunition Depot. U. S. Army. \$14,000. 1993.
- PI – M. V. Lomolino, “Ecology of insular mammals of Lake Huron.” Naturalist - Ecologist Fellowships, University of Michigan - Mellon Foundation. 1986 (\$4,800), 1987 (\$5,100), and 1988 (\$5,100)

### **Awards and Honors:**

Glaser Distinguished Visiting Professor, Florida International University. Island Biology. Spring, 2001.

The American Society of Mammalogists Award, 1983 (\$500). Immigrant selection, predation and the distributions of *Microtus pennsylvanicus* and *Blarina brevicauda* on islands.

University of Arizona Five Star Teaching Award Nominee. Spring, 1989.

Distinguished Dissertation Award, Division of Science and Mathematics, State University of New York at Binghamton, 1983.

University of Arizona, TAPP Faculty Teaching Recognition, 1987.

### **Teaching Experience:**

Analysis and Visualization in Biogeography. Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, NY, Spring, 2007.

Mammal Diversity. Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, NY, Spring semesters, 2002, 2003, 2005 and 2007.

Graduate Seminar in Advanced Conservation Biology, Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, NY, 2004 to present.

## **MARK V. LOMOLINO**

Biodiversity and Geography of Nature/Biogeography. Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, NY, Fall semesters, 2001, 2002, 2003, 2004 and 2006.

Senior Synthesis in Conservation Biology, Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, NY, Spring semesters, 2003 to present.

Ecology and Conservation of Islands. Glazier Distinguished Visiting Professorship, Florida International University, Spring, 2001.

Biodiversity and Ecology of Adirondack Mammals. Cranberry Lake Biological Station, SUNY College of Environmental Science and Forestry, Syracuse, NY, Summer, 2001.

Seminar in Biodiversity Research. Department of Zoology, University of Oklahoma, Fall, 1996, Spring and Fall, 1995, Fall, 1999.

Biogeography. Department of Zoology, University of Oklahoma, Fall, 1993, 1995, 1997 and 1999.

Conservation Biology. Department of Zoology, University of Oklahoma, Spring, 1993; Fall, 1994, Fall, 1996, Spring 1998, Fall, 2000.

Behavior and Conservation Biology. Independent Study (Z5990-02), Fall, 1992, University of Oklahoma.

Principles of Biology I (Zoology), The Human Body and Physiology, Assistant Professor, Penn State University Altoona Campus, Department of Biology. Fall, 1990 to 1992.

Graduate Lecturer, "Conservation Biology". Bard College Master of Science in Environmental Studies. Summer, 1990.

Assistant Professor, "Anatomy and Physiology", University of Arizona, Department of Ecology and Evolutionary Biology. Fall, 1986 to Fall, 1990.

Seminar Coordinator (with W. Calder), "Conservation Biology", University of Arizona, Department of Ecology and Evolutionary Biology. Fall, 1988 to present.

Seminar Coordinator (with N. Stamp), "Community Ecology", State University of New York at Binghamton. Spring, 1985.

Lecturer, "Ecology", State University of New York at Binghamton; Fall, 1983 and Spring, 1984.

Lecturer, "Ecology", State University of New York at Utica/Rome; Spring, 1980.

### **Former and Current Graduate Students:**

Katherina Searing, "Rapid evolution of mammalian body size in response to anthropogenic climate change." Ph.D., SUNY College of Environmental Science and Forestry. anticipated in Spring, 2010.

Shannon Marie Morgan, "Effects of fragment area on bats of a temperate rainforest – Olympic National Forest, WA." Master Thesis, SUNY College of Environmental Science and Forestry. Spring, 2008.

Chris Akios, "Habitat loss and the utility of an old-growth corridor for herpetofauna in Olympic National Forest." Masters Thesis, SUNY College of Environmental Science and Forestry. Fall, 2007

Gregory Smith, "Assembly of Avian Communities Associated with Prairie Dog Towns in a Mixed, Shortgrass Prairie." Ph.D., University of Oklahoma. Spring, 2007. Present Position: Manager - Martin Center for Field Studies and Environmental Education, Department of Biology, University of Akron, Ohio.

Scott LaPoint, "Ecology and Conservation of Wildlife along a Major Highway in Adirondack Park, New York. Spring, 2007. Masters Thesis, SUNY College of Environmental Science and Forestry.

Jocelyn Jones. MPS 2007. SUNY College of Environmental Science and Forestry.

Melissa Songer, "Ecology and Niche Dynamics of *Peromyscus* in the Olympic National Forests." Masters Thesis, University of Oklahoma. Spring, 1996. Present Position: GIS Specialist, Smithsonian Conservation Research Center.

David R. Perault, "Landscape Ecology and the Role of Corridors in Determining the Spatial Structure of Insular Mammal Populations." Ph.D. Dissertation, University of Oklahoma, Summer, 1998. Present position: Chair and Assistant Professor, Environmental Biology Program, Lynchburg College, Virginia.

Rob Channell, "A Geography of Extinction: Patterns in the Contraction of Geographic Ranges." Ph.D. Dissertation, University of Oklahoma, Summer, 1998. Present position: Assistant Professor, Department of Biology, Fort Hays State University, Kansas.

Tabbatha Franklin, "Effects of Old-growth Forest Fragmentation on Two Species of Shrews in Olympic National Forest, Washington." Masters Thesis, University of Oklahoma. Fall, 1999.

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### **Publications:**

- Lomolino, M. V. 1977. The Florida manatee. Wildlife Report. 77:1-2. Florida Coop. Ext. Serv.
- Lomolino, M. V. 1980. Impact of additional locks operations on mammals along the St. Lawrence River. U.S. Fish and Wildlife Report:D, 1-23, Cortland, New York.
- Lomolino, M. V. 1982. Species-area and species-distance relationships of terrestrial mammals in the Thousand Island Region. *Oecologia* 54: 72-75.
- Lomolino, M. V., and K. C. Ewel. 1984. Digestive efficiencies and consumption rates of the Florida manatee (*Trichechus manatus*). *Florida Scientist* 47:176-179.
- Lomolino, M. V. 1984. Mammalian island biogeography: Effects of area, isolation and vagility. *Oecologia* 61:376-382.
- Lomolino, M. V. 1984. Immigrant selection, predatory exclusion and the distributions of *Microtus pennsylvanicus* and *Blarina brevicauda* on islands. *Amer. Natur.* 123:468-483.
- Lomolino, M. V. 1985. Body size of mammals on islands: the island rule re-examined. *American Naturalist* 125:310-316.
- Lomolino, M. V. 1986. Mammalian community structure on islands: Immigration, extinction and interactive effects. *Biol. J. Linn. Soc.* 28:1-21, and Chapter I in, "Island Biogeography of Mammals", Academic Press, New York.
- Lomolino, M. V. 1988. Winter immigration abilities and insular community structure of mammals in temperate archipelagoes. In *Biogeography of the Island Region of Western Lake Erie*. Ohio University Press.
- Davis, R., C. Dunford and M. V. Lomolino. 1988. Montane mammals of the American southwest: the possible influence of post- Pleistocene colonization. *J. Biogeog.* 15:841-848.
- Lomolino, M. V., J. H. Brown and R. Davis. 1989. Island biogeography of montane forest mammals in the American Southwest. *Ecology* 70:180-194.
- Brown, J. H. and M. V. Lomolino. 1989. On the nature of scientific revolutions: independent discovery of the equilibrium theory of island biogeography. *Ecology* 70:1954-1957.
- Lomolino, M. V. 1989. Interpretation and comparisons of constants in the species-area relationship: an additional caution. *Amer. Nat.* 133:71-75.
- Lomolino, M. V. 1989. Bioenergetics of cross-ice movements of *Microtus pennsylvanicus*, *Peromyscus leucopus* and *Blarina brevicauda*. *Holarctic Ecology* 12:213-218.
- Lomolino, M. V. 1990. A test of the "target area effect": the influence of island area on immigration rates of non-volant mammals. *Oikos* 77:297-300.
- Lomolino, M. V. 1993. Winter filtering, immigrant selection and species composition of insular mammals of Lake Huron. *Ecography* 16:24-30.
- Lomolino, M. V. 1993. Matching among granivorous mammals of the Great Basin and Sonoran Deserts: a question of scale. *J. Mammal.* 74:863-867.
- Lomolino, M. V. 1993. Immigrations and distribution patterns of insular mammals: studying fundamental processes island biogeography. *Ecography* 16:376-379.
- Lomolino, M. V. 1994. Species richness patterns of mammals inhabiting nearshore archipelagoes: area, isolation, and immigration filters. *J. Mammal.* 75:39-49.
- Lomolino, M. V. 1994. An evaluation of alternative strategies for building networks of nature reserves. *Biological Conservation* 69:243-249.
- Lomolino, M. V., J. H. Brown and R. Davis. 1994. Analyzing insular distribution patterns: statistical approaches and biological inferences. (in press, *Ann. Zool. Fenn.*)
- Lomolino, M. V., J. C. Creighton, G. D. Schnell and D. L. Certain. 1995. Ecology and conservation of the endangered American burying beetle (*Nicrophorus americanus*). *Conservation Biology* 9:605-614.
- Lomolino, M. V., and R. Channell. 1995. Splendid isolation: patterns of range collapse in endangered mammals. *Journal of Mammalogy* 76:335-347.
- Lomolino, M. V. 1996. Investigating causality of nestedness of animal communities: selective immigrations or extinctions? *Journal of biogeography* 23:699-713.
- Lomolino, M. V., and J. C. Creighton. 1996. Habitat selection and breeding success of the endangered American burying beetle (*Nicrophorus americanus*). *Biological Conservation* 77:235-241.
- Rosenzweig, M. L., and M. V. Lomolino. 1997. Rarity and community ecology: who gets the tiny bits of the broken stick. Pp. 63-90 in, *The Biology of Rarity: Causes and Consequences of rare-common differences* (W. E. Kunin and K. J. Gaston, eds).
- Lomolino, M. V. 1997. Review of "Species Diversity in Space and Time" by M. L. Rosenzweig. *Journal of Wildlife Management*.

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- Lomolino, M. V. 1997. Range collapse in endangered mammals. *Environmental Review* 4(1):1-4.
- Songer, M., Lomolino, M. V., and D. Perault. 1997. Habitat selection and niche dynamics of deermice (*Peromyscus oreas* and *P. maniculatus*) in a fragmented, old-growth forest landscape. *Journal of Mammalogy* (Special Feature) 78:1027-1039.
- Lomolino, M. V., and R. Davis. 1997. Biogeographic scale and biodiversity of mountain forest mammals of western North America. *Global Ecology and Biogeography Letters* 6:57-76.
- Lomolino, M. V., and R. Channell. 1998. Range collapse, reintroductions and biogeographic guidelines for conservation: a cautionary note. *Conservation Biology* 12:481-484.
- Brown, J. H., and M. V. Lomolino. 1998. *Biogeography*. Sinauer Associates.
- Lomolino, M. V. 1999. Review of *Evolution on Islands*, by Peter R. Grant (Oxford University Press. *American Zoologist* 39:184.
- Lomolino, M. V. 1999. A Beacon for Ecology, Evolution and Conservation of Isolated Biotas. Review of *Island Biogeography: Ecology, Evolution, and Conservation* by R. J. Whittaker. *Journal of Biogeography*, Vol. 26:1129.
- Lomolino, M. V. 2000. Variations on a theme by Wilson. Review of *Precious Heritage: The Status of Biodiversity in the United States* by B. A. Stein; L. S. Kutner; J. S. Adams. *Journal of Biogeography*, Vol. 27:1251-1252.
- Lomolino, M. V. 1999. A species-based, hierarchical model of island biogeography. Pp. 272-310 in, *Ecological Assembly rules: perspectives, advances, retreats* (E. A. Weiher and P. A. Keddy, eds.). Cambridge University Press, New York.
- Channell, R., and M. V. Lomolino. 2000. Dynamic biogeography and conservation of endangered species. *Nature* 403:84-86.
- Perault, D., and M. V. Lomolino. 2000. Corridors and Mammal Community Structure across a Fragmented, Old-growth Forest Landscape. *Ecological Monographs* 70:401-422.
- Lomolino, M. V. 2000. Contributions on Island Biogeography, In *Encyclopaedic Dictionary of Environmental Change*. Arnold University Press, London.
- Lomolino, M. V., and D. R. Perault. 2000. Assembly and dis-assembly of mammal communities in a fragmented temperate rainforest. *Ecology* 81:1517-1532.
- Lomolino, M. V. 2000. A Beacon for Ecology, Evolution and Conservation of Isolated Biotas. A review of "Island Biogeography: ecology, evolution, and conservation," by R. J. Whittaker. 1998. Oxford University Press, Oxford, UK. *Journal of Biogeography* 26:1129-1131.
- Lomolino, M. V. 2000. Ecology's most general, yet protean pattern: the species-area relationship. Millennium Issue, *Journal of Biogeography* (invited paper) 27:17-26.
- Lomolino, M. V. 2000. A call for a new paradigm of island biogeography. (introduction to a special feature, edited by M.V. L. for) *Global Ecology and Biogeography* 9:1-6.
- Lomolino, M. V. 2000. A species-based theory of insular zoogeography. *Global Ecology and Biogeography* 9:39-58.
- Lomolino, M. V., and G. A. Smith. 2000. Islands in a sea of grass. *Newsletter of the Oklahoma Biological Survey*. 1:4-5.
- Lomolino, M. V. 2000. An Overview of Biogeography, In *Encyclopedia of Biodiversity* (S. Levin, editor). Academic Press, California.
- Brown, J. H., and M. V. Lomolino. 2000. Concluding remarks: historical perspective and the future of island biogeography theory. *Global Ecology and Biogeography* 9:87-92.
- Channell, R., and M. V. Lomolino. 2000. Trajectories toward extinction: dynamics of geographic range collapse. *Journal of Biogeography* 27:169-179.
- Lomolino, M. V. 2001. The species-area relationship: new challenges for an old pattern. Invited paper, *Progress in Physical Geography* 25:1-21.
- Lomolino, M. V., R. Channell, D. R. Perault, and G. A. Smith. 2001. Downsizing nature: anthropogenic dwarfing of species and ecosystems. Invited Chapter in, *Biotic Homogenization: the loss of diversity through invasion and extinction*, edited by Michael McKinney and Julie Lockwood.
- Lomolino, M. V., and D. R. Perault. 2001. Island biogeography and landscape ecology of mammals inhabiting fragmented, temperate rainforests. *Global Ecology and Biogeography* 10:113-132.
- Lomolino, M. V. 2001. Elevational gradients of species-density: historical and prospective views. *Global Ecology and Biogeography* 10:3-13.
- Lomolino, M. V., and G. A. Smith. 2001. Dynamic biogeography of prairie dog (*Cynomys ludovicianus*) towns near the edge of their range. Invited paper for a special feature, *Journal of Mammalogy* 82:937-945.

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- Lomolino, M. V., and M. D. Weiser. 2001. Towards a more general species-area relationship: diversity on all islands, great and small. *Journal of Biogeography*, 28:431-445.
- Heaney, L. R., M. V. Lomolino, and R. J. Whittaker. 2001. Frontispiece: Diversity Patterns of Small Mammals along Elevational Gradients. *Global Ecology and Biogeography*, 10:1.
- Lomolino, M. V. 2002. "There are areas too small, and areas too large to show clear diversity patterns ..." R. H. MacArthur (1972:191). *Journal of Biogeography* 29:555-557.
- Lomolino, M. V., and G. A. Smith. 2003. Terrestrial vertebrate communities at black-tailed prairie dog (*Cynomys ludovicianus*) towns. *Biological Conservation* 115:89-100.
- Lomolino, M. V., and G. A. Smith. 2003. Long-term persistence of prairie dog towns: insights for designing networks of prairie reserves. *Biological Conservation* 115:111-120.
- Lomolino, M. V. 2003. Biogeography – the foundation and future of science. *International Biogeography Society Newsletter* 1:1-2.
- Lomolino, M. V., and Perault, D. R. 2004. Geographic gradients of deforestation and mammalian communities in a fragmented, temperate rainforest landscape. *Global Ecology and Biogeography* 13:55-64.
- Smith, G.A., Lomolino, M.V., 2004. Black-tailed prairie dogs and the structure of avian communities on the shortgrass plains. *Oecologia* 138:592-602.
- Lomolino, M. V., and G. A. Smith. 2004. Prairie dog towns as islands: applications of island biogeography and landscape ecology for conserving non-volant terrestrial vertebrates. *Global Ecology and Biogeography* 12:275-286.
- Lomolino, M. V., Sax, D. F., and Brown, J. H. (editors) 2004. *Foundations of Biogeography*. University of Chicago Press, IL.
- Lomolino, M. V., and L. R. Heaney. (editors) 2004. *Frontiers of Biogeography*. Sinauer Associates, Inc.
- Lomolino, M. V. 2004. Conservation biogeography. Pp. 293-296 in, *Frontiers of Biogeography*. Sinauer Associates, Inc.
- Lomolino, M. V., B. R. Riddle, and James H. Brown. 2006. *Biogeography*, 3<sup>rd</sup> Edition. Sinauer Associates, Inc.
- Lomolino, M. V. 2005. Body size evolution in insular vertebrates: generality of the island rule. *J. Biogeography* 32:1683-1699.
- Lomolino, M. V. 2006. Space, Time, and Conservation Biogeography. Chapter 6 in, *The Endangered Species Act at Thirty: Conserving Biodiversity in Human-dominated Landscapes*. J. M. Scott, D. D. Goble and F. W. Davis (eds.). Island Press, London.
- Lomolino, M. V., D. F. Sax, B. R. Riddle and J. H. Brown. 2006. The island rule and a research agenda for studying ecogeographic patterns. *Journal of Biogeography* 33:1503-1510.
- Lomolino, M. V. 2007. Oceania's avifauna across space and time -- *Extinction and Biogeography of Tropical Pacific Birds*, by David W. Steadman. *Trends in Ecology and Evolution* (in press).
- Lomolino, M. V., and D. R. Perault. 2007. Body size variation of mammals in a fragmented, temperate rainforest. *Conservation Biology* 21:1059-1069.
- Lomolino, M. V. 2007. Biogeography emerging: provocative and integrative perspectives in historical biogeography. Review of *Biogeography in a Changing World*, edited by Malte Ebach and Raymond Tangney. CRC Press.
- Creighton, C., R. Bastarache, M. V. Lomolino and M. C. Belk. 2008. Effect of forest removal on the abundance of the endangered American burying, *Nicrophorus americanus* (Coleoptera: Silphidae). *Journal of Insect Conservation* (in press).

### **Papers Presented and Guest Lectures (1985 to present):**

- "Isolation, Vagility and Island Biogeography of Mammals." IV International Theriological Congress, 1985.
- "Biogeography of Mammals on Temperate Archipelagoes." IX Biosciences Colloquium, Ohio State University, 1985.
- "Community Ecology and Biogeography of Insular Mammals." Michigan State University, 1986.
- "Adaptive Morphology and Physiology of the Florida Manatee (*Trichechus manatus*)." University of Arizona, 1986.
- "Bioenergetics, Ecology and the Evolution of Insular Mammals." University of Arizona, 1987.
- "Biogeography of Montane Mammals in the American Southwest." American Society of Mammalogists, 1987.
- "Community Ecology of Insular Mammals: Additive and Interactive Effects." Cornell University, 1987.

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- "Feeding Apparatuses in Mammals." "Determinants of Community Structure in Insular Mammals." Utah State University, 1987.
- "Winter Immigrations of Mammals in the Thousand Island Region." University of New Haven, 1988.
- "Minimum Areas for Conservation: Lessons from Patterns of Occurrence of Insular Mammals." Conservation Forum, Southwest Association of Biologists, Amer. Mus. Nat. Hist. Research Station, 1988.
- "Ecology and Evolution of Insular Mammals." Brigham Young University, 1989.
- "Rediscovering the Equilibrium Theory: From Caribbean Butterflies to Mammals on Islands in the Sky." Southwest Association of Biologists, 1989.
- "Island Biogeography theory, empirical patterns and conservation of montane biotas." Invited paper in workshop on the Biology of Mount Graham, Smithsonian Institution, 1989.
- "Ecology of Terrestrial Mammals in the Thousand Island Region." Patterson College, 1990.
- "Ecology, Biogeography and Evolution of Insular Mammals." Villanova University, 1990.
- "Physiology and Geographical Ecology of Mammals." University of Nevada at Las Vegas, 1990.
- "Winter Immigrations and Biogeographic Patterns of Insular Mammals." Georgia Southern University, 1990.
- "Immigration, Extinction and Biogeography of Insular Mammals". American Museum of Natural History, 1990.
- "Ecology and Conservation of the Florida Manatee." American Museum of Natural History, 1990.
- "Theoretical Debates and Empirical Solutions for Conservation Biology." Penn State University, University Park, 1991.
- "Empirical and Theoretical Approaches for Designing Networks of Nature Reserves". Yale University, 1991.
- "Empirical and Theoretical Approaches for Designing Networks of Nature Reserves." University of Oklahoma, 1991.
- The Role of Theory versus Empiricism in Conserving Biodiversity. Natural Heritage Inventory Conference, 1992.
- Symposium Organizer. Design and Management of Nature Reserves. Natural Heritage Inventory Conference, 1992.
- Fort Chaffee and the American Burying Beetle. Poster presented at the Legacy Texas Regional Meeting (Schnell, Lomolino, Certain and Hiott; presented by Hiott). Fall, 1992.
- "Splendid Isolation: patterns of range collapse in endangered mammals." Invited Speaker, Oklahoma State University. 1994.
- Invited Speaker, "Multi-scale approaches for restoring biodiversity." Symposium on Restoration Biology, American Society of Mammalogists 75th Anniversary Meeting, 1994.
- "Biogeography of Range Collapse in Endangered Species." Department of Biology, University of New Mexico. 1994.
- "Splendid Isolation: patterns of range collapse in endangered mammals." American Society of Mammalogists 75th Anniversary Meeting, 1994.
- "Rarity and community ecology: who gets the tiny bits of the broken stick." Ecological Society of America, 1994 (presented by M. L. Rosenzweig).
- "Range Collapse in Endangered Species." Poster presented at the National Heritage Inventory Meetings, Southeastern Region, 1994.
- "Macroecology and Patterns of Range Collapse in Endangered Species." Department of Ecology and Evolutionary Biology, University of Arizona, 1994.
- Invited Speaker, "Biodiversity and Conservation Biology of Montane Forest Mammals." INTECOL meetings, Manchester, England, 1994.
- "Effects of Global Change on Biodiversity of Vertebrates." Ninth Annual Forest Service Workshop, National Center for Atmospheric Research, Boulder, Colorado, November, 1994.
- "Range Collapse and Conservation of Endangered Species of Mammals." Conservation Biology Meetings, Fort Collins, Colorado, 1995.
- "Assembly of Insular Vertebrate Communities: Immigration, Extinction and Interspecific Interactions." Ecological Society of America Meetings, Snowbird, Utah, 1995.
- "Biodiversity of Oklahoma's Terrestrial Wildlife." Oklahoma Biodiversity Meetings, 1996.
- "Splendid Isolation: Ecology and Conservation of Endangered Wildlife." University of Idaho, 1996.
- "Biogeography and Ecology of Prairie Dogs in Oklahoma," poster presented with Gregory A. Smith. Conservation Biology Meetings, Victoria. 1997.

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- "Range Collapse and Conservation of Endangered Species," poster presented with Rob Channell. Conservation Biology Meetings, Victoria. 1997.
- "Distribution and Ecology of Shrews in Temperate, Old-Growth Rainforests," poster presented with Tabbatha Franklin. Conservation Biology Meetings, Victoria. 1997.
- "Biogeography of Mammals of Olympic National Forest, Washington," poster presented with David Perault. Conservation Biology Meetings, Victoria. 1997.
- "Splendid Isolation: Biogeography and Ecology of Endangered Species." Invited paper presented at the Extinction Symposium, Conference on Australian Vertebrate Ecology and Paleontology, Perth Australia, July, 1997.
- "A species-based approach to Island Biogeography Theory." Invited paper presented at the Seventh International Theriological Congress, Acapulco, Mexico. 1998.
- Body size, macroecology and conservation. Invited talk at University of New Mexico during sabbatical leave, 1999.
- "Geography of Extinction and Range Collapse." Invited talk at UC Davis, CA, 2000.
- "Fragmentation and Conservation of Mammals in Olympic National Forest, Washington." Invited talk at Washington State University, WA, 2000.
- "Biogeography, Range Collapse and Conservation of Biological Diversity." Invited talk at University of Utah, 2000.
- "Fragmentation and Conservation of Mammals in Temperate, Old-growth Forests." Invited talk at Colorado State University, CO, 2000.
- "Downsizing Nature and the Parable of the Woolly Mammoth." Invited keynote address, Ecology and Evolution Symposium, Iowa State University, 2002.
- "The Wallacean Shortfall: Biogeography and Conservation Biology." Invited keynote address, National GAP Analysis Meetings, 2002.
- "Conservation Biogeography." Invited paper presented at the International Biogeography Society Inaugural Meetings, 2003.
- "Conservation Biogeography: Splendid Isolation, Downsizing Nature and the Parable of the Woolly Mammoth. Mark V. Lomolino. Inaugural Lecture in the *Conservation and Environment Series*, Boston University, Departments of Biology, and Geography and Environment. 2006
- "Conservation Biogeography: Splendid Isolation, Downsizing Nature and the Parable of the Woolly Mammoth. Mark V. Lomolino. University of Rochester. 2007.
- "Geographic Insights for Umbrella Species Approaches to Conservation." DoD, SERDP Meetings, December, 2007.

### **Service and Related Activities:**

- President, *INTERNATIONAL SOCIETY OF BIOGEOGRAPHY*, 2003 to 2005.
- Conference Coordinator, *INTERNATIONAL BIOGEOGRAPHY SOCIETY*, 2005.
- Member of Integrative Leadership Group, SUNY-ESF, 2003 to 2006.
- Member of Promotion and Tenure Committee, Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry – 2004 to 2007.
- Member of ad hoc committee on graduate courses, EFB, 2003.
- Scientific Working Group, New York State Biodiversity Research Institute, 2002 to present.
- Coordinator of Conservation Biology Major/Option, SUNY College of Environmental Science and Forestry, Syracuse, New York. Fall, 2001 to present.
- Visions Committee, Department of Environmental and Forest Biology, SUNY College of Environmental Science and Forestry, Syracuse, New York, Fall, 2001.
- Co-founder, *INTERNATIONAL SOCIETY OF BIOGEOGRAPHY*. ([www.biogeography.org](http://www.biogeography.org))
- Scientific Panel Member, *Sustainable Ecosystems Institute*.
- Editor, *GLOBAL ECOLOGY AND BIOGEOGRAPHY: A JOURNAL OF MACROECOLOGY*.
- Advisory Panel Member to U.S.F.W.S. for development of strategies for conserving populations of black-tailed prairie dogs and associated communities. 1999 to 2003.
- Editorial Advisory Board - *GLOBAL ECOLOGY AND BIOGEOGRAPHY LETTERS*, 1997 to 2000.
- Editorial Advisory Board – *BIOLOGICAL CONSERVATION*, 1998 to 2004.
- External Reviewer of promotion and tenure dossiers, 2000 - Kansas State University, University of New Mexico and University of California, Davis.
- Land Mammal Conservation Committee, American Society of Mammalogists, 1994 to 1996.



## **MARK V. LOMOLINO**

Reviewer of Student Paper, Ecological Society of America Meetings, 1995.

Reviewer of Student Posters, International Biogeography Society, 2007.

Workshop Coordinator, "Conservation Biology and Status of the Endangered American Burying Beetle (*Nicrophorus americanus*). "Sponsored by the U.S. Fish and Wildlife Service and the University of Oklahoma, Norman, Oklahoma, 1995.

Workshop Coordinator, "Ecosystem and Landscape Level Approaches for Conserving Biodiversity. "American Society of Mammalogists 75th Anniversary Meeting, 1994.

Co-organizer of a workshop on "Principles and Issues in Biodiversity Research. Oklahoma Academy of Sciences, 1994.

Terrestrial Ecologist Search Committee, Department of Zoology, U. Oklahoma, 1993 and 1994.

Conservation Biology Committee, College of Arts and Sciences, University of Oklahoma, 1993.

Graduate Student Selections Committee, Department of Zoology, U. Oklahoma, 1993 and 1994.

Committee A, Oklahoma Biological Survey, University of Oklahoma, 1993.

### **Proposal Reviewer:**

National Science Foundation 1985, 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2003 AND 2006.

NSF Panel Member, Restoration and Conservation Biology, 1994.

NSF Panel Member, Ecology, 1997.

### **Book Reviewer:**

- "Island Biogeography of plants," Cambridge University Press, 2003.

- "Precious Heritage: the status of biodiversity in the US", by TNC and ABI, 2000.

- "Island Biogeography. "Oxford University Press, 1999.

- "Evolution on Islands. "Peter Grant, Cambridge University Press, 1998.

- "Introduced Birds. "Michael Moulton, University of Florida, 1997.

- "Macroecology". James H. Brown, University of New Mexico, 1993.

- "Patterns in Species Diversity". Michael Rosenzweig, University of Arizona, 1993.

- "Primer for Ecology". Biology. "W. K. Purvess and G. H. Orians, 2nd edition. Sinauer, 1986.

- "Human Anatomy and Physiology. "E. Marieb. Benjamin Cummings Publ. Comp., 1988.

- "Principles of Anatomy and Physiology; Learning Guide. "Prezbindowski and Tortora. Harper and Row Publ., 1988.

- "Anatomy and Physiology Laboratory Manual Prospectus. "Peter Karch: Saunders, 1991.

### **Manuscript Reviewer (1990 to present):**

AMERICAN MIDLAND NATURALIST

AMERICAN NATURALIST

BIODIVERSITY AND CONSERVATION

BIOLOGICAL CONSERVATION

BIOLOGICAL LETTERS (LONDON)

CONSERVATION BIOLOGY

ECOGRAPHY

ECOLOGICAL APPLICATIONS

ECOLOGY and ECOLOGICAL MONOGRAPHS

ECOLOGY LETTERS

ECOSCIENCE

EVOLUTION

EVOLUTIONARY ECOLOGY

GLOBAL ECOLOGY AND BIOGEOGRAPHY

GREAT BASIN NATURALIST

J. THEORETICAL BIOLOGY

JOURNAL OF BIOGEOGRAPHY

JOURNAL OF MAMMALOGY

JOURNAL OF THEORETICAL ECOLOGY

OIKOS

OKLAHOMA ACADEMY OF SCIENCES

PROC. NATIONAL ACADEMY OF SCIENCE

PROC. ROYAL SOCIETY (BIOLOGY)

THE AUK

VIDA SILVESTRE NEOTROPICAL

### **Membership in Professional Societies:**

Ecological Society of America, 1978 to present

Society for Conservation Biology, 1990 to present

American Society of Mammalogists, 1977 to present

International Biogeography Society, 2001 to present.

The Wildlife Society, 2005 to present.

International Union for the Conservation of Nature (Conservation Breeding Specialist Group, Species Survival Commission), 2006 to present.