

ANNUAL REPORT: June 1, 2014 – May 31, 2015
(i.e., Summer 2014, AY 2014-2015)
DEPARTMENT OF ENVIRONMENTAL AND FOREST BIOLOGY
SUNY-ESF

*****PLEASE DO NOT INSERT TABLES FOR ANY CATEGORIES*****

NAME: Mark V. Lomolino

I. INSTRUCTIONAL ACTIVITIES

1. Regular Course Offerings

	Course No.	Title	Credit Hrs.	No. Students	No. of Lab. Sections
SUMMER:					
FALL:	Sabbatical Leave EFB899 13	Masters Thesis Research	1	1	
SPRING:	EFB483 01-04	Mammal Diversity	4	59	4

NOTE: PLEASE INDICATE WHICH COURSE(S) HAD A SERVICE-LEARNING COMPONENT AND BRIEFLY EXPLAIN THE NATURE OF THIS COMPONENT. For examples of service-learning in courses, see: <http://www.esf.edu/students/service/courses.htm>. Service-learning is a form of structured experiential education in which students engage with the community to be active learners, to enrich their sense of civic responsibility, and to explore practical application for course content. Faculty oversight, reflective thinking, and reciprocity are key components of service-learning.

2. Non-Scheduled Course Offerings (e.g., 496, 899, 999)

	Course No.	Title	Credit Hrs.	No. Students
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3. Continuing Education and Extension (short courses, workshops, etc.)

4. Guest Lecture Activities

	Course No.	Title	No. of Lectures
	EFB 211	Diversity of Life	2

II. STUDENT ADVISING

- A. Number of undergraduates for whom you are the student's official advisor _____ and unofficial advisor _____
- B. Graduate Students: (list name, degree sought, starting date, month & year; if a degree was completed, please give date and full citation for the thesis or dissertation).

MAJOR PROFESSOR

Katherina Bendz, Ph.D., August, 2005 to present

CO-MAJOR PROFESSOR

Kristin Haynes, Ph.D. August 2013 to Spring 2014

MEMBER, STEERING COMMITTEE (other than those listed above)

Tim McCoy
Chelby Kilheffer
Scott Bequin
Lindsay Scales
Lucas Negoita – SU
Jessica McCordic – SU

CHAIRMAN OR READER ON THESIS EXAMS, ETC.

III. RESEARCH COMPLETED OR UNDERWAY

- A. Departmental Research (unsupported, boot-legged; title - % time spent)
Island Biogeography Theory and Practice – 15%
Soundscape Ecology – 20%
- B. 1. Grant-supported Research (source, subject, amount - total award and current year, award period starting and ending dates; list graduate research assistants supported by each grant)
- PI - NSF – Of Mice and Mammoths: Toward a General Theory of Body Size Across Space and Time
requested \$420,681, received partial funding \$100,000 for initial period of grant; August 2010 to 2015.
2. Research Proposals pending (include information as in B.1., above).
NSF - CyberSoundscapes: Big Data Tools for Sustainable Ecosystems; Total Award Amount: \$102,128
Total Award Period Covered: 10/1/15-9/30/19
- NSF - Collaborative Research: Dimensions-Sonorous Biodiversity: Spatial Variation and Covariation of Biodiversity and Soundscape Complexity; Total Award Amount: \$171,398; Total Award Period Covered: 1/1/16-12/31/19
3. Research Proposals submitted, but rejected (include information as in B.1., above)

IV. PUBLICATIONS (Full bibliographic citation, i.e., do not use "with Jones," or "Jones, et al."; please list only publications published, in press, or actually submitted during this reporting period --- **do not list manuscripts in preparation**).

A. Refereed Publications

Lomolino, M. V., B. C. Pijanowski and A. Gasc. 2015. The silence of biogeography. *Journal of Biogeography* 42: 1187–1196.

B. Non-refereed Publications

C. Papers Presented at Science Meetings (give title, date, occasion, and location)

The Silence of Biogeography. January, 2015. International Biogeography Society Meetings, Germany.

D. Public Service Presentations (lectures, seminars, etc. to and for the public; give group or occasion, date(s), and attendance)

The Ecology of Evolution – Ithaca College, New York, October 2014.

Body Size Evolution and the Island Rule – Florida Atlantic University, November 2014.

Body Size Evolution in Insular Mammals – The University of Florida, December 2014.

V. PUBLIC SERVICE

A. Funded Service (include consulting activities)

1. Government Agencies (Federal, State, Local):

2. Industrial and Commercial Groups, etc.

B. Unfunded Service to Governmental Agencies, Public Interest Groups, etc.

VI. PROFESSIONAL DEVELOPMENT

A. Professional Honors and Awards (for teaching, research, outreach, etc.)

B. 1. Activities in Professional Organizations (offices held, service as chairman, member, participant or consultant)

2. Professional Society Membership

American Society of Mammalogists

The International Society of Biogeography

International Union for the Conservation of Nature

3. Other Professional Activities

a. Editorial activity

Editor, Monographs in Biogeography, section in Frontiers of Biogeography (published by The International Biogeography Society)

Journal (s)

Responsibility

Other (books, symposia, etc.)

b. Reviewer

Journal(s)

No. of manuscripts

Bioscience

1

Ecology Letters

2

Global Ecology and Biogeography

1

Agency

No. of proposals

Other

Book Proposal – “Biogeography and Evolution in New Zealand”, for Wiley Science Publications.

c. Participation (workshops, symposia, etc.)

Name of workshop, etc.

Date

Place

C. Further Education/Re-training Undertaken, Leaves, Workshops, etc.

D. Foreign Travel (Where, When, Purpose)

VII. ADMINISTRATIVE AND SERVICE RESPONSIBILITIES (include committee participation)

A. Department-level

B. College-level

C. University-wide, including Research Foundation

VIII. SUMMARY OF SIGNIFICANT ACTIVITIES AND ACCOMPLISHMENTS DURING THIS REPORTING PERIOD, ESPECIALLY THOSE MOST NOTEWORTHY AND RELATIVE TO THE COLLEGE’S AND DEPARTMENT’S MISSION.

One paragraph on each of the following (i.e., three paragraphs total) would be most helpful: this past year, what have you done for our students, department/college, and self professionally? NOTE: The information in this

section (along with the supporting specific information elsewhere in this report) should be your strongest case for being considered for a discretionary raise (when available), which I'll continue to award based on your contributions to the department and college this reporting period.

Students I have continued to teach courses that emphasize fundamental biological, geological and geographic factors that influence biodiversity, and challenge students to develop an integrative understanding of relevant patterns and to articulate this in writing (essay form exams that I grade myself). The mammal diversity course has now grown to approximately 60 students. This course continues to receive excellent reviews from students. I also continue to offer a series of graduate seminars and courses on various topics in conservation biology and biogeography, including a new seminar in Biogeography of Humanity, which I hope to develop into an upper division and graduate course in the near future.

Department/College My service to the department and college should continue to develop following my return from sabbatical leave and should as deemed appropriate include increasing service on departmental and other committees

Professional Development I have developed my international network of colleagues and research programs in the areas of biogeography, ecology and macroecology. As a result, I have begun to publish with new collaborators, develop new proposal and received invitations to give guest lectures, keynote addresses and serve as external evaluator of faculty and research programs. I have begun a new line of research on Soundscape Ecology, which is an emerging discipline focusing on the spatial and temporal variation in the sounds of nature. We have published our first paper on this new line of research and have submitted two proposals to NSF, now in review.

IX. A. FUTURE PLANS, AMBITIONS, AND POTENTIAL CONTRIBUTIONS FOR YOUR OWN PROFESSIONAL DEVELOPMENT AND THE ENHANCEMENT OF THE PROGRAM IN ENVIRONMENTAL AND FOREST BIOLOGY (brief summary)

In teaching, I will continue to develop my current course offerings, including continuing to teach courses in Mammal Diversity and in Biogeography, along with courses on a variety of topics related to conservation biology and biogeography, including a new course in The Biogeography of Humanity.

In research, I am continuing to develop collaborations with a macroecologist at Brown University and with paleoecologists from Italy, Greece and the Netherlands; these studies focus on evolutionary and geographic variation of body size of non-native, introduced mammals, and a related study of body size variation and potential anthropogenic downsizing of elephants. Ultimately, we plan to combine these research activities with development of an international course on the ecology, evolution and conservation of island life to be taught in alternate summers at sites in the Mediterranean and Caribbean or Northeastern North America.

New research collaborations also includes that with Bryan Pijanowski from Purdue University, where he has assembled a diverse team of biologists, acoustic ecologists and others to explore the ecological and geographic aspects of sounds in nature – an emerging field called Soundscape Ecology.

In service, I will continue advising undergraduate and graduate students and contribute to development of the majors in Conservation Biology and Wildlife Sciences, and increase my contributions to departmental and college-wide service.

In service to professional societies, I continue to contribute as a member of the editorial board, founder and past-president of the International Biogeography Society, and have worked with my colleagues to establish a new series of monographs and expanded reviews in biogeography.

B. PROJECTED ACTIVITIES FOR NEXT YEAR

1. Summer 2015

a. Course(s) to be offered

b. Proposed research activity

Completion of additional manuscripts on body size evolution in mammals introduced onto islands; and island biogeography of now extinct, insular mammals prior to the arrival of humans.

Revision of our Biogeography text for its 5th edition.

c. University, professional society, and public service– see previous page

2. Fall Semester 2015

a. Course(s) to be offered

Diversity of Mammals (EFB 483) – switched from Spring to Fall semesters.

b. Proposed research activity

Completion of additional manuscripts on body size evolution in mammals introduced onto islands; and island biogeography of now extinct, insular mammals prior to the arrival of humans.

Complete revision of our Biogeography text for its 5th edition.

c. University, Professional society, and public service – see previous page

3. Spring Semester 2016

a. Course(s) to be offered

b. Proposed research activity

Completion of additional manuscripts on body size evolution in mammals introduced onto islands; and island biogeography of now extinct, insular mammals prior to the arrival of humans.

Complete revision of our Biogeography text for its 5th edition.

c. University, professional society, and public service– see previous page