

**ANNUAL REPORT: June 1, 2012 – May 31, 2013**  
**(i.e., Summer 2012, AY 2012-2013)**  
**DEPARTMENT OF ENVIRONMENTAL AND FOREST BIOLOGY**  
**SUNY-ESF**

**NAME:** Mark V. Lomolino .

**I. INSTRUCTIONAL ACTIVITIES**

1. Regular Course Offerings

	<u>Course No.</u>	<u>Title</u>	<u>Credit Hrs.</u>	<u>No. Students</u>	<u>No. of Lab. Sections</u>
SUMMER:					
FALL:	EFB 444	Biodiversity and Geogr. Nature	3	39	
	EFB 498	Independent Research	1	1	
	EFB 797	Soundscape Conservation	1	7	
SPRING:					
	EFB 483	Mammal Diversity	4	76	4
	EFB 796	Biodiversity of Mammals	4	2	

**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)

	<u>Course No.</u>	<u>Title</u>	<u>Credit Hrs.</u>	<u>No. Students</u>
Fall, 2012				
	EFB 899	Masters Research	1	1
	EFB 999	Dissertation Research	1	1
Spring, 2013				
	EFB 899	Masters Research	1	1

3. Continuing Education and Extension (short courses, workshops, etc.)

4. Guest Lecture Activities

<u>Course No.</u>	<u>Title</u>	<u>No. of Lectures</u>
EFB 210	Diversity of Life	3

## **II. STUDENT ADVISING**

A. Number of undergraduates for whom you are the student's official advisor \_20\_ and unofficial advisor approximately 5 of Dr. Gibbs' students while he was on sabbatical leave

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

Natasha Karniski, MS, August 2009 to present

Kyle Kowaite, MPS – Applied Ecology, August 2011 to graduated in Spring, 2013.

### **CO-MAJOR PROFESSOR**

### **MEMBER, STEERING COMMITTEE** (other than those listed above)

Tim McCoy

Chelby Kilheffer

Lucas Negoita - SU

### **CHAIRMAN OR READER ON THESIS EXAMS, ETC.**

Chair of Graduate Defense Committee for - C. Paolini - Sustainable Construction Management & Engineering

## **III. RESEARCH COMPLETED OR UNDERWAY**

A. Departmental Research (unsupported, boot-legged; title - % time spent)

Island Biogeography Theory and Practice – 10%

Atlas of Long Distance Dispersal – 10%

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)

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 2014.

2. Research Proposals pending (include information as in B.1., above).

3. Research Proposals submitted, but rejected (include information as in B.1., above)

See Grant Program, ESF – An Atlas of Long-Distance Dispersal, \$8,000, not funded.

**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., A. A. van der Geer, G. A. Lyras, M. R. Palombo, D. F. Sax and R. Rozzi. 2013. Of mice and mammoths: generality and antiquity of the island rule. *Journal of Biogeography*  
van der Geer, A. A., G. A. Lyras, Lomolino, M. V., M. R. Palombo and D. F. Sax. 2013. Body size evolution of palaeo-insular mammals: temporal variations and interspecific interaction. *Journal of Biogeography*

B. Non-refereed Publications

MacDonald, D. W. and K. J. Willis. (editors) 2013. *Key Topics in Conservation Biology – Chapter 11: Habitat case studies: Islands* (Carolyn King, Mark Lomolino, Gary Roemer and Brendan Godley). John Wiley & Sons, Publishers.

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

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

**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 Wildlife Society

The International Society of Biogeography

International Union for the Conservation of Nature

3. Other Professional Activities

a. Editorial activity

<u>Journal (s)</u>	<u>Responsibility</u>
Frontiers of Biogeography	– Editorial Board
<u>Other (books, symposia, etc.)</u>	

b. Reviewer

<u>Journal(s)</u>	<u>No. of manuscripts</u>
GeoBios	1
Journal of Biogeography	3
Biology Letters	1
Avian Biology	1
Biodiversity and Conservation	1
Proceedings of the Royal Society	1
Journal of Animal Ecology	1
Functional Ecology	1
Journal of Mammalogy	1
Diversity and Distributions	1
American Naturalist	1
Global Ecology and Biogeography	1

<u>Agency</u>	<u>No. of proposals</u>
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Other  
Outside Reviewer for Tenure and Promotion Decision – University of Florida

c. Participation (workshops, symposia, etc.)

<u>Name of workshop, etc.</u>	<u>Date</u>	<u>Place</u>
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C. Further Education/Re-training Undertaken, Leaves, Workshops, etc.

ArcGIS – refresher and tutorial  
Regressions and CART – Salford Systems Web course

D. Foreign Travel (Where, When, Purpose)

## VII. ADMINISTRATIVE AND SERVICE RESPONSIBILITIES (include committee participation)

### A. Department-level

Freshman and Transfer Student Orientation/Advising – Summer, 2012

### 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 biogeography course (undergraduate and graduate) continues to attract approximately 40 students from ESF and SU, and the mammal diversity course has now grown to approximately 80 students. Both of these courses receive excellent reviews from students. I also continue to offer a series of graduate seminars and courses on various topics in conservation biology – topics that change depending on interests of students and new emphases in the field.

Department/College My service to the department and college have been limited because of personal issues, but have included meeting with prospective students and job candidates, hosting accepted student receptions and freshman/transfer orientation advising, serving on graduate student committees and as chair of exam and defense committees for the College.

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 am about to serve in this capacity later this month, evaluating Denmark's Center for Macroecology and Climate, which will also provide opportunities for new collaborations including a new program of research on long-distance movements as adaptations to climate change for North American wildlife.

**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. The latter will include a new course to be offered in the fall of 2012 – 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 Brian 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.

**B. PROJECTED ACTIVITIES FOR NEXT YEAR**

1. Summer 2013
  - a. Course(s) to be offered
  - b. Proposed research activity
  - c. University, professional society, and public service
  
2. Fall Semester 2012
  - a. Course(s) to be offered  
EFB797 Biogeography of Humanity (new trial course)
  
  - b. Proposed research activity  
- see above
  
  - c. University, Professional society, and public service  
– see above
  
3. Spring Semester 2012
  - a. Course(s) to be offered  
EFB 483 Mammal Diversity  
EFB 683 Biodiversity of Mammals
  
  - b. Proposed research activity  
- see above
  
  - c. University, professional society, and public service – see above