**ANNUAL REPORT: June 1, 2016 – May 31, 2017**  
(i.e., Summer 2016, AY 2016-2017)  
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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>Credit</th>
<th>No. Hrs.</th>
<th>Students</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMER:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FALL:</td>
<td>EFB 483 MAMMAL DIVERSITY</td>
<td>4</td>
<td>75</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EFB 444/644 GEOG. NATURE/BIOG.</td>
<td>3</td>
<td>42</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>SPRING:</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**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](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)

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>Credit</th>
<th>No. Hrs.</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPRING 2016</td>
<td>EFB 420 PROF INTERN.</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>FALL 2016</td>
<td>EFB 420 PROF INTERN.</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

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

4. Guest Lecture Activities

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>No. of Lectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFB 211</td>
<td>DIVERSITY OF LIFE</td>
<td>2</td>
</tr>
</tbody>
</table>
II. STUDENT ADVISING

A. Number of undergraduates for whom you are the student’s official advisor — 19 — 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 Searing, Ph.D., August 2005 to present

CO-MAJOR PROFESSOR

MEMBER, STEERING COMMITTEE (other than those listed above)
Kristen Haynes
Luka Negotia (SU)
John Mousopteros
Chellby Kilheffer

CHAIRMAN OR READER ON THESIS EXAMS, ETC.
Ying Guo

III. RESEARCH COMPLETED OR UNDERWAY

A. Departmental Research (unsupported, boot-legged; title - % time spent)
   Island Biogeography Theory and Practice – 25%
   Soundscape Ecology – 25%

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 2016.

   2. Research Proposals pending (include information as in B.1., above).
      PI - NSF – The Geography of Sound: Synergy of Biogeography and Soundscape Ecology. $750K; CoPI Bryan Pijanowski (Purdue); Sept. 15 submission deadline.

   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. 2016. The fundamental, unifying principles of biogeography. Frontiers of Biogeography 8.2, e29920

B. Non-refereed Publications

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 International Society of Biogeography
   International Union for the Conservation of Nature

3. Other Professional Activities
a. Editorial activity

<table>
<thead>
<tr>
<th>Journal(s)</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Editorial Board, Editor of Monographs – Frontiers of Biogeography, International Biogeography Society</td>
</tr>
</tbody>
</table>

Other (books, symposia, etc.)

b. Reviewer

<table>
<thead>
<tr>
<th>Journal(s)</th>
<th>No. of manuscripts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
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</table>

<table>
<thead>
<tr>
<th>Agency</th>
<th>No. of proposals</th>
</tr>
</thead>
<tbody>
<tr>
<td>U Basel</td>
<td>1</td>
</tr>
<tr>
<td>Villum, Danish Res. Foundation</td>
<td>1</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Theses University of Waikato, NZ</td>
<td>2</td>
</tr>
</tbody>
</table>

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
   Spotlight on Student Research Judge
   Academic Standards Committee, EFB representative Spring 2017

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. The mammal diversity course has now grown to approximately 80 students (Fall 2016 enrollment). This course continues to receive excellent reviews from students. The biogeography course I teach (EFB 444/644) is now offered every year, in the fall, along with my course in mammal diversity (EFB 483), with an enrollment of 45 students, 3 to 5 students are graduate level. My exams in each of these courses are written/essay format, with all questions graded by me.

Department/College My service to the department and college should continue to develop 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 new lines of research on Soundscape Ecology and on Palaeo-biogeography, which are emerging disciplines focusing on -- the spatial and temporal variation in the sounds of nature, and patterns in geographic variation of life before the impacts of human activities. We have published our first papers on these new lines of research. As a result, ResearchGate often reports that our papers are the most frequently cited of those from our department.

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, and seminars as appropriate on related topics. I am also in the preliminary stages of launching an international initiative through the International Biogeography Society – On teaching that grand subject – which will provide instructors at colleges and universities across the globe with resources for teaching biogeography at graduate and undergraduate levels, with the ultimate goal of expanding teaching of the biogeography nature across an expanding diversity of undergraduate curricula.

In research, I am continuing to develop collaborations with soundscape ecologists from Purdue, and with paleobiologists from Italy, Greece and the Netherlands; the latter studies focus on evolutionary and geographic variation of vertebrates prior to the impacts of humans. 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 soundscape ecologist Bryan Pijanowksi 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. We are in the final stages of preparing an NSF proposal for submission this September (anticipated budget of $750K).
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 now with my colleagues established a new series of monographs and expanded reviews in biogeography.

B. PROJECTED ACTIVITIES FOR NEXT YEAR

1. Summer 2017
   a. Course(s) to be offered

   b. Proposed research activity
      Complete NSF proposal on the Geography of Sound

   c. University, professional society, and public service

2. Fall Semester 2017
   a. Course(s) to be offered
      EFB 483  (enrollment 80)
      EFB 444/644  (enrollment 40)

   b. Proposed research activity – see previous page
      The Geography of Sound
      Evolution of Body size on islands

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

3. Spring Semester 2018
   a. Course(s) to be offered

   b. Proposed research activity –see previous page

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