Accepted Manuscript

Title: Is conservation research money being spent wisely? Changing trends in conservation research priorities

Author: J.T. Stroud E. Rehm M. Ladd P. Olivas K.J. Feeley

PII: \$1617-1381(14)00055-7

DOI: http://dx.doi.org/doi:10.1016/j.jnc.2014.05.003

Reference: JNC 25358

To appear in:

Received date: 28-2-2014 Revised date: 26-5-2014 Accepted date: 29-5-2014

Please cite this article as: Stroud, J. T., Rehm, E., Ladd, M., Olivas, P., and Feeley, K. J.,Is conservation research money being spent wisely? Changing trends in conservation research priorities, *Journal for Nature Conservation* (2014), http://dx.doi.org/10.1016/j.jnc.2014.05.003

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Is conservation research money being spent wisely? Changing trends in conservation research priorities Stroud^{1,2*}, J.T., Rehm^{1,2}, E., Ladd¹, M., Olivas^{1,2}, P., Feeley^{1,2}, K.J. 7 ¹Department of Biological Science, Florida International University, Miami, FL, USA ²Center for Tropical Plant Conservation, Fairchild Tropical Botanic Garden, Coral Gables, FL, USA *jameststroud@gmail.com As conservation biologists we have the responsibility to study both conservation related topics and to ensure those topics can be used in either an applied, theoretical or foundational perspective. Recent interest in temporal trends in ecological research (Carley et al. 2013) has opened the door to addressing how well we are managing the allocation of public research funds. Temporal patterns in research priorities often change through a combination of political, social, economic and scientific drivers. Having multiple, and sometimes contrary, drivers may shift research focus away from "true" research needs in applied sciences towards those determined more by the availability of funding and/or popular trends. In certain research fields, such as conservation biology, the need for accurate coupling of research needs and priorities is paramount. Conservation biology is often defined as a "mission driven crisis discipline", and as such research priorities should ideally parallel the relative importance of different conservation threats. Conservation research priorities (here measured by the number of conservation-related articles published annually in peer-reviewed scientific journals) has increased exponentially over the last 22 years, rising from <150 articles in 1990 to >4000 articles in 2012. However, as demonstrated by previous studies, this growth has not been consistent between taxonomic groups or geographic areas (Wilson et. al. 2005, Lawler et. al. 2006, Griffith and Dos Santos 2012) and may not necessarily reflect changes in research needs. Consequently, it remains uncertain if growth and prioritization have been consistent between research themes, or subdisciplines. In other words, it is unknown if conservation priorities change in relation to research needs, or if instead to shifts in funding, which may or may not correspond to true research needs. To address this question, we conducted a survey of the occurrences of phrases related to different research themes in the titles, abstracts, and keywords in >40,000 conservation-related articles published over the past 22 years (1990-2012; Table 1), as well as the amount of money awarded by the US NSF for research on each of these themes (note: search terms were non-exclusive and thus articles and awards could be tallied under multiple research topics). It must be highlighted that these analyses are restricted to US funding patterns as comparable metadata from other countries could not be retrieved. As such, there is a possibility that the connections we draw between funding patterns and research priorities are not representative of the global conservation community. However North America, and particularly the US, has

Download English Version:

https://daneshyari.com/en/article/6305466

Download Persian Version:

https://daneshyari.com/article/6305466

<u>Daneshyari.com</u>