### **Education & Outreach** Tues 8:30-9:45 Thurs. 14:00-15:30



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# Connecting Conservation Policy And Marine Mammal Science: A Survey Of Attitudes And Trends In Publications

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#### **Survey: Communicating Science for the Conservation of Marine Mammals**

This survey was conducted as an independent project by Roxanne J Carini, PhD, during her oneyear Sea Grant Knauss Fellowship at the Marine

The purpose of this survey was to better mammal issues regarding how scientific results are applied to marine mammal conservation, policy,

A similar survey was originally designed and in 2007 by Vicki Cornish and Raychelle working for the Ocean Conservancy. 2007. The survey consisted of multiple choice, check-box, rating, and open-ended questions related to marine mammal conservation. It was administered through Survey Monkey for a period of eight weeks. Participation is voluntary and

The survey was not submitted to the Institutional Review Board (survey uses human subjects) for the results will be distributed to the governmental organizations, and others interested in improving communication efforts related to the conservation of marine mammals. Scan QR code for full access to the data and results summary.

If you have any questions about the survey or results, please contact the principal investigator at rcarini@mmc.gov.

#### **Demographics of Survey Respondents:**

Geographic Region	48.5% US, 25% unknown (from 2019), 11.5% Europe, 6% UK/Ireland, 6.5% CAN, ≤3% other countries
Level of Education	30% undergrad, 40% masters, 30% doctorate (88% science degrees)
Occupation	82.5% research/science, 60% conservation, 56% education, 42.5% students (undergrad/grad), 30% management, 32% outreach, 23% policy, 23% tourism, 15.5% rescue/response/rehab, 14% consulting, 9% animal husbandry/trainer, 4% industry, 1.5% military
Relevant Region of Research	33% NW Atlantic, 25% NW Pacific, 20% California Current/NE Atlantic/Gulf of Mexico, ≤20% other regions, global research represented
Funding Source	66.5% public, 58% private, 31% personal/unfunded
Field of Research	45-61%: conservation, behavioral ecology, habitat/distribution, or population biology/abundance 23-37%: acoustics/communication, fisheries

**Literature Review:** Marine Mammal Science (1985-2019) Edited By: Daryl J. Boness Impact factor: 2.018 Online ISSN:1748-7692 © Society for Marine Mammalogy

https://onlinelibrary.wiley.com/journal/17487692

Using MATLAB Text Analytics and Statistics & Machine Learning toolboxes, searched for use of abstract, and key words of each article (notes, reviews, books, errata, etc. not included). Data

current as of 09 October 2019. Scan QR code for

full access to the data and processing code.

#### **Acknowledgements:**

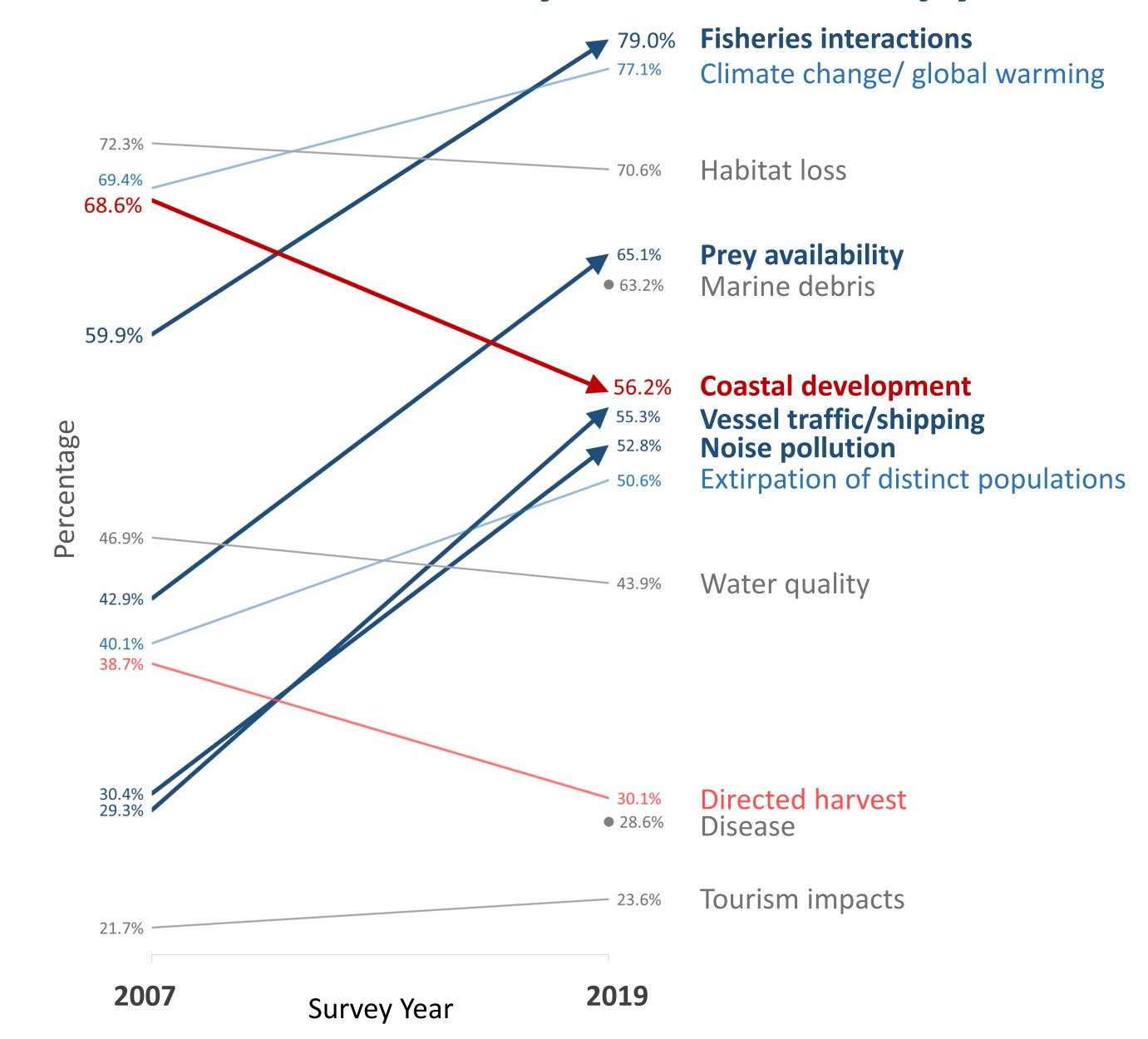
Thank you to all those who took the time to complete the survey! The principal investigator is grateful for the support of Washington Sea Grant, the NOAA/Sea Grant Knauss Marine Policy Fellowship, and the Marine Mammal Commission. Special thanks also to Anita Kinney for assistance collating the journal article information, and to Daryl Boness for helpful conversations about the history of the Journal of Marine Mammal Science.

#### For DATA:

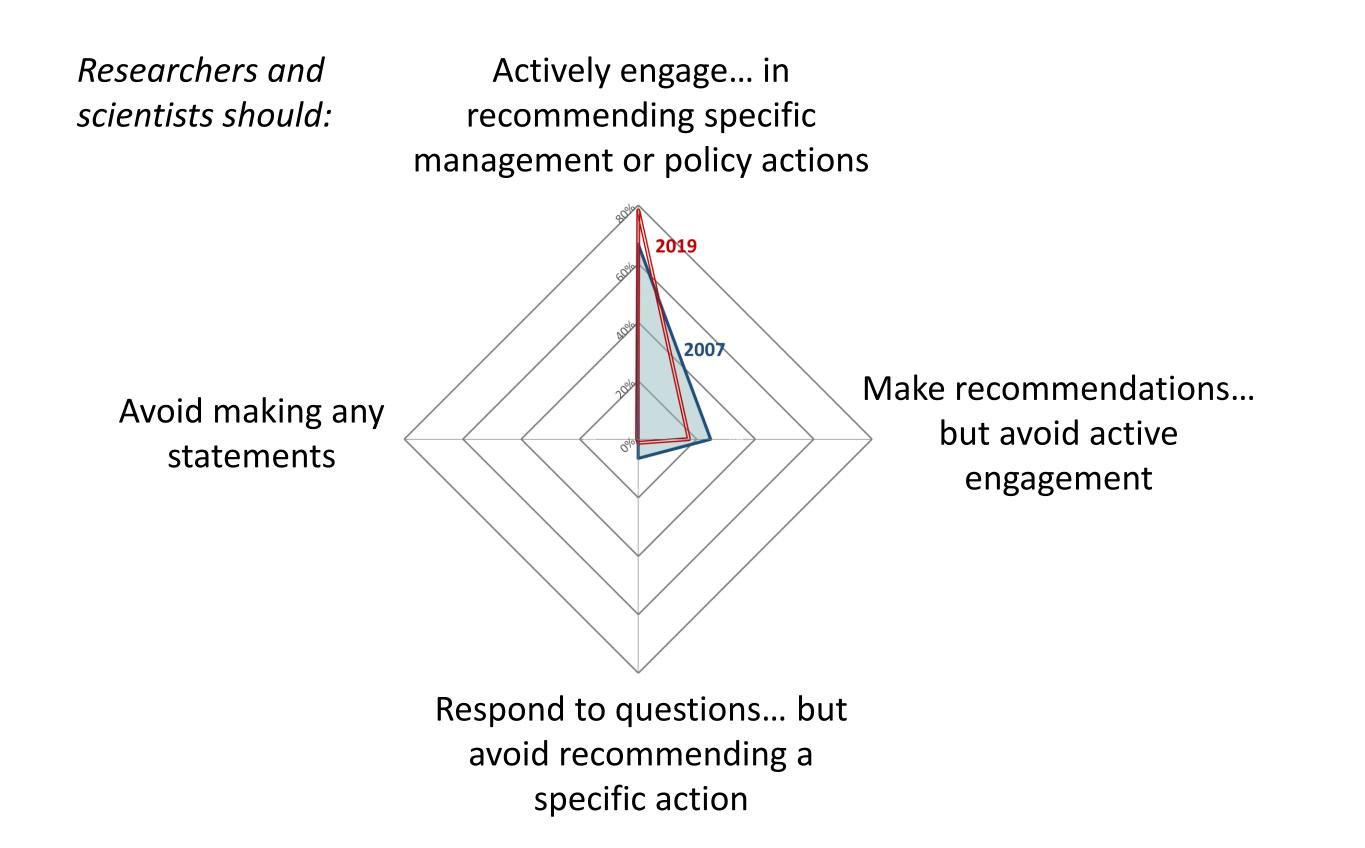


## Key findings from a comparison of surveys and a literature review:

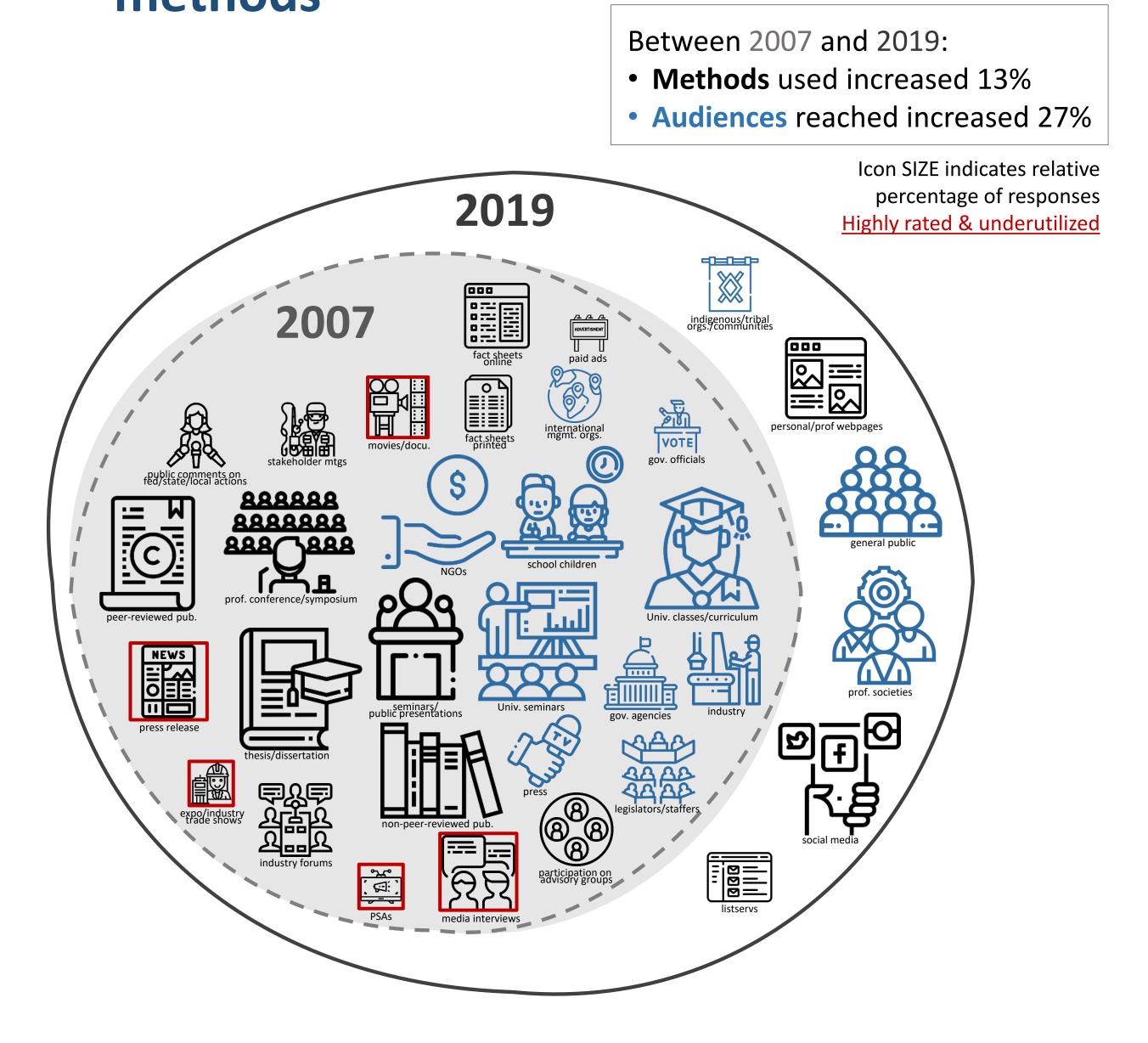
1. Conservation issues of highest concern shifted dramatically between survey years



2. Attitudes are aligning towards active engagement in recommending policy or management actions



3. Researchers/scientists are reaching a broader audience using a wider variety of methods



Authors are emphasizing conservation in research-focused papers more often

> Literature review: Marine Mammal Science (1985-2019)

