

Laura MANNOCCI

Marine Geospatial Ecology Lab, Duke University

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Research interests

- Understanding how physiographic, oceanographic and biological factors influence the distributions of marine predators at large spatial scales
- Investigating the choice of temporal resolutions when modeling marine predator distributions in various ecosystems
- Extrapolating cetacean densities to enhance their conservation in areas beyond national jurisdiction

Education

- 2010-2013: **PhD, Marine Ecology with honours**
Laboratoire Littoral Environnement et Sociétés, Université de La Rochelle, France
- 2006-2010: **Engineering program in Agronomy and Fisheries Sciences**
Ecole Nationale Supérieure Agronomique de Toulouse and Agrocampus Ouest, France
- 2004-2006: **Special scientific class preparing to the competition for admission in engineering programs**
Lycée Masséna, Nice, France

Research activities

- 2014-present: **Extrapolating cetacean densities for management applications**
Postdoctoral Associate
Lab: Marine Geospatial Ecology Lab, Duke University, Durham, NC, U.S.A.
Supervisor: Prof. Patrick N. Halpin
- 2010-2013: **Distribution of cetaceans and seabirds in tropical oceans: roles of physiographic, oceanographic and biological factors**
PhD student
Lab: Laboratoire Littoral Environnement et Sociétés, Université de La Rochelle, La Rochelle, France
Supervisor: Prof. Vincent Ridoux
- 2010: **Assessing the impact of bycatch on common dolphins in the eastern North Atlantic**
MSc internship (6 months)
Lab: Laboratoire Littoral Environnement et Sociétés, Université de La Rochelle, La Rochelle, France
Supervisor: Prof. Vincent Ridoux
- 2009: **Examining the breeding success of black-legged kittiwakes in relation to fisheries and climate**
Undergraduate internship (3 months)
Lab: School of biological sciences, University of Aberdeen, Aberdeen, U.K.
Supervisor: Dr. Bess Scott
- 2009: **Experimental study of the growth of the cyanobacteria *Crocospaera watsonii***
Undergraduate internship (3 months)
Lab: Observatoire océanologique, Villefranche sur mer, France
Supervisor: Dr. Antoine Sciandra

Peer-reviewed publications

Mannocci L, Roberts JJ, Miller DL, Halpin PN (2016). Extrapolating cetacean densities beyond surveyed regions to qualitatively assess human impacts on populations in the high seas. *In Press in Conservation Biology*.

Roberts JJ, Best BD, **Mannocci L**, Fujioka E, Halpin PN, Palka DL, Garrison LP, Mullin KD, Cole TVN, McLellan WN, Lockhart GG (2016). Habitat-based cetacean density models for the U.S. Atlantic and Gulf of Mexico. *Scientific Reports* 6: 22615.

Mannocci L, Monestiez P, Spitz J, Ridoux V. (2015) Extrapolating cetacean densities beyond surveyed regions: Habitat-based predictions in the circumtropical belt. *Journal of Biogeography* 42:1267-1280.

Lambert C, **Mannocci L**, Lehodey P, Ridoux V. (2014). Predicting cetacean habitats from their energetic needs and the distribution of their prey in two contrasted tropical regions. *PLoS ONE* 9(8): e105958.

Mannocci L, Catalogna M, Dorémus G, Laran S, Massart W, Monestiez P, Van Canneyt O, Watremez P, Ridoux V (2014). Predicting cetacean and seabird habitats across a productivity gradient in the South Pacific gyre. *Progress in Oceanography* 120: 383–398.

Mannocci L, Laran S, Monestiez P, Dorémus G, Van Canneyt O, Watremez P, Ridoux V (2014). Predicting top predator habitats in the Southwest Indian Ocean. *Ecography* 37: 261–278.

Mannocci L, Monestiez P, Bolaños-Jiménez J, Dorémus G, Jeremie S, Laran S, Rinaldi R, Van Canneyt O, Ridoux V (2013). Megavertebate communities from two contrasting ecosystems in the western tropical Atlantic. *Journal of Marine Systems* 111–112: 208–222.

Mannocci L, Dabin W, Augeraud-Véron E, Dupuy J-F, Barbraud C, Ridoux V (2012). Assessing the impact of bycatch on dolphin populations: the case of the common dolphin in the eastern North Atlantic. *PLoS ONE* 7(2): e32615.

In review:

Mannocci L, Boustany A, Roberts J, Bailey H, Bograd S, Becker E, Cleary J, Gardner B, Hartog J, Hazen E, Ferguson M, Forney K, Kinlan B, Moxley J, Olliver M, Palacios D, Peretti C, Ridoux V, Teo S, Viehman S, Winship A, Dunn D, Halpin P. Habitat models of marine predators: a question of time? *In review in Diversity and Distributions*.

Communications in international conferences

Mannocci L, Roberts JJ, Cleary J, Ridoux V, Halpin PN (2016). Using environmental envelopes to assess existing cetacean data collections and help prioritize survey effort at the basin scale. Présentation orale. *30th Annual Conference of the European Cetacean Society*, Funchal (Portugal).

Mannocci L, Roberts JJ, Halpin PN (2015). From surveyed to unsurveyed areas: extrapolating cetacean densities in the offshore North Atlantic. Présentation orale. *29th Annual Conference of the European Cetacean Society*, St Julian's (Malta).

Lambert C, **Mannocci L**, Lehodey P, Ridoux V (2014). Prediction cetacean habitats from the distribution of their prey in two contrasted tropical regions. Poster. *Integrated Biogeochemistry and Ecosystem Research Conference*, Bergen (Norway).

Mannocci L, Authier M, Lambert C, Laran S, Lehodey P, Monestiez P, Van Canneyt O, Watremez P, Ridoux V (2013). Top predators as sentinels of pelagic ecosystems: disentangling the complexity of a simple idea. Présentation orale. *3rd International Marine Protected Areas Congress*, Marseille (France).

Mannocci L, Dorémus G, Laran S, Spitz J, Van Canneyt O, Ridoux V (2011). Do odontocetes with higher energy requirements select more productive habitats? A comparative study in the Southwest tropical Indian Ocean. Poster. *19th Biennial Conference on the Biology of Marine Mammals*, Tampa (U.S.A.).

Mannocci L, Dabin W, Augeraud-Véron E, Dupuy JF, Barbraud C, Ridoux V (2011). Assessing the impact of bycatch on common dolphin in the eastern North Atlantic. Poster. *25th Annual Conference of the European Cetacean Society*, Cadiz (Spain).