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HIGHER EDUCATION

University of Washington Ph. D. Fisheries Biology. 1998
University of California, Berkeley B. A. Biology and Environmental Science. 1990

EXPERIENCE

University of Miami. Marine Biology and Ecology. Associate Professor. 2015-present. Assistant Professor. 2009-2015. Research Assistant Professor. 2003-2009.

Wildlife Conservation Society. New York. Fisheries Scientist. 1999 – 2003.

SELECTED PUBLICATIONS

Forrestal, F., C., M. Schirripa, C. P. Goodyear, H. Arrizabalaga, **E. A. Babcock**, R. Coelho, W. Ingram, M. Lauretta, M. Ortiz, R. Sharma, J. Walter. 2019. Testing robustness of CPUE standardization and inclusion of environmental variables with simulated longline catch datasets. *Fisheries Research* 210: 1–13. doi:10.1016/j.fishres.2018.09.025

Babcock, E. A., A. Tewfik, and V. Burns-Perez. 2018. Fish community and single-species indicators provide evidence of unsustainable practices in a multi-gear reef fishery. *Fisheries Research* doi: 10.1016/j.fishres.2018.07.003

Cardeñosa, D., A.T. Fields, **E. A. Babcock**, H. Zhang, K. Feldheim, S. K. H. Shea, G. A. Fischer, D. D. Chapman. 2018. CITES-listed sharks remain among the top species in the contemporary fin trade. *Conservation Letters* 2018;e12457. doi: 10.1111/conl.12457

Bond, M. E., J. Valentin-Albanese, **E. A. Babcock**, N. E. Hussey, M. R. Heithaus, D. D. Chapman. 2018. The trophic ecology of Caribbean reef sharks (*Carcharhinus perezi*) relative to other large teleost predators on an isolated coral atoll. *Marine Biology* 165:67. doi: 10.1007/s00227-018-3322-2

Grüss, A., D. D. Chagaris, **E. A. Babcock** and J. H. Tarnecki. 2018 Assisting ecosystem-based fisheries management efforts using a comprehensive survey database, a large environmental database, and generalized additive models. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 10:40–70. doi: 10.1002/mcf2.10002

Fields, A.T., G. A. Fischer, S. K. H. Shea, H. Zhang, D. L. Abercrombie, K. A. Feldheim, **E. A. Babcock**, and D. D. Chapman. 2018. Species composition of the international shark fin trade assessed through a retail-market survey in Hong Kong. *Conservation Biology* doi:10.1111/cobi.13043

Tewfik, A., **E. A. Babcock**, J. Gibson, V. R. Burns-Perez, S. Strindberg. 2017. Benefits of a replenishment zone revealed through trends in focal species at Glover’s Atoll, Belize. *Marine Ecology Progress Series* 580: 37–56, 2017. doi:10.3354/meps12290

O’Farrell H, A. Grüss, S. R. Sagarese, **E. A. Babcock**, and K. A. Rose. 2017. Ecosystem modeling in the Gulf of Mexico: current status and future needs to address ecosystem-based fisheries management and restoration activities. *Reviews in Fish Biology and Fisheries*. DOI 10.1007/s11160-017-9482-1

Grüss, A., J. T. Thorson, S. R. Sagarese, **E. A. Babcock**, M. Karnauskas, J. F. Walter III, M. Drexler. 2017. Ontogenetic spatial distributions of red grouper (*Epinephelus morio*) and gag grouper (*Mycteroperca microlepis*) in the U.S. Gulf of Mexico. *Fisheries Research* 193:129-142

- Harford, W. J., T. Gedamke, **E.A. Babcock**, R. Carcamo, G. McDonald and J.R. Wilson. 2016. Management strategy evaluation of a multi-indicator adaptive framework for data-limited fisheries management. *Bulletin of Marine Science* 92(4) doi: 10.5343/bms.2016.1025
- Hoenig, J., A.Y-H. Then, **E. A. Babcock**, N. G. Hall, D. Hewitt and S. A. Hesp. 2016. The logic of comparative life history studies for estimating key parameters, with a focus on natural mortality rate. *ICES Journal of Marine Science* doi:10.1093/icesjms/fsw089
- Harford, W.H., and **E. A. Babcock**. 2016. Aligning monitoring design with fishery decision-making: examples of management strategy evaluation for reef-associated fisheries. *Aquatic Living Resources* 29 (205). doi:10.1051/alr/2016018
- Harford, W. J., S. G. Smith, J. S. Ault and **E. A. Babcock**. 2016. Cross-shelf habitat occupancy probabilities for juvenile groupers in the Florida Keys coral reef ecosystem. *Marine and Coastal Fisheries* 8:147-159. doi:10.1080/19425120.2015.1074967
- Ortiz de Zárate, V. and **E. A. Babcock**. 2015. Estimating individual growth variability in albacore (*Thunnus alalunga*) from the North Atlantic stock; aging for assessment purposes. *Fisheries Research*. doi:10.1016/j.fishres.2015.07.030
- Babcock, E. A.**, W. J. Harford, R. Coleman, J. Gibson, J. Maaz, J. Foley and M. Gongora. 2015. Bayesian depletion model estimates of spiny lobster abundance at two marine protected areas in Belize with or without in-season recruitment. *ICES Journal of Marine Science* 72 (Suppl. 1):i232–i243. doi: 10.1093/icesjms/fsu226
- Karnauskas, M. and **E. A. Babcock**. 2014. An analysis of indicators for the detection of effects of marine reserve protection on fish communities. *Ecological Indicators* 46:454-465. doi:10.1016/j.ecolind.2014.07.006
- Babcock, E. A.**, R. Coleman, M. Karnauskas and J. Gibson. 2013. Length-based indicators of fishery and ecosystem status: Glover's Reef Marine Reserve, Belize. *Fisheries Research* 147:434- 445 doi:10.1016/j.fishres.2013.03.011
- Bond, M. E., **E. A. Babcock**, E. K. Pikitch, D. L. Abercrombie, N. F. Lamb and D. D. Chapman. 2012. Reef Sharks Exhibit Site-Fidelity and Higher Relative Abundance in Marine Reserves on the Mesoamerican Barrier Reef. *PLoS One* 7(3): e32983. doi:10. 1371/journal.pone.0032983
- Karnauskas, M. and **E. A. Babcock**. 2012. Comparisons between abundance estimates from underwater visual census and catch-per-unit-effort in a patch reef system. *Marine Ecology Progress Series* 468: 217-230. doi: 10.3354/meps10007
- Babcock, E. A.** and A. D. MacCall. 2011. How useful is the ratio of fish density outside versus inside no-take marine reserves as a metric for fishery management control rules? *Canadian Journal of Fisheries and Aquatic Sciences* 68: 343–359. doi:10. 1139/F10-146
- Karnauskas, M., B. E. Huntington, **E. A. Babcock** and D. Lirman. 2011. Pre-existing spatial patterns in fish abundances influence species-specific responses in a Caribbean marine reserve. *Marine Ecology Progress Series* 432: 235–246. doi: 10. 3354/meps09151

SYNERGISTIC ACTIVITIES

- International Commission for the Conservation of Atlantic Tuna. Member of the U. S. Delegation to the Standing Committee on Research and Statistics (1999-present)
- Living Marine Resources Cooperative Science Center: Project director (2015-present)
- Courses taught: Bayesian Statistics for Marine Scientists, Fishery Management and Conservation, Statistics for Environmental Management, Conservation Biology of the Galapagos.