

Joel Fodrie, Ph.D.

Associate Professor, Institute of Marine Sciences at UNC-Chapel Hill

Morehead City, NC, US

F. Joel Fodrie is a fisheries ecologist at the UNC Chapel Hill Institute of Marine Science.

F. Joel Fodrie is a fisheries ecologist at the UNC-Chapel Hill Institute of Marine Sciences. He studies coastal organisms and the environments they live in, with the aim of conserving these environments for healthy populations of fish, shellfish, and other organisms important to the ecosystem. His lab conducts basic and applied research emphasizing connectivity of marine populations and ecosystems, trophic interactions involving bivalves and fishes in estuarine communities, and ecosystem service delivery of biogenic habitats. These themes are directly related to the maintenance of coastal ecosystems, and provide key data for management strategies of nearshore fisheries. Additionally, Fodrie conducts experiments related to recruitment processes and mechanisms, oyster reef restoration ecology, and oil-spill impacts. Research tools include manipulative field experiments, intensive field surveys, historical reconstructions, GIS simulations, ROVs, stable isotope analyses, population projection matrix models, geochemical tagging, and acoustic tagging. Fodrie has worked along all three major U.S. coastlines, examining: 1) linkages between coastal habitat quality and fishery production; 2) landscape ecology; 3) novel approaches for habitat restoration; 4) marine population connectivity; and 5) effects of harvest pressure and climate variability on long-term population trends of fishery species (using multi-decade data sets).

Maritime, Research, Education/Learning

Coastal Ecology, Fisheries, Sharks, Oil Spills, Habitat Restoration, Coastal Ecosystems, Seagrass, Oyster Reefs, Marine Biology, Acoustic Tagging, Ecosystem services, Shellfish, Mariculture

University of California

Ph.D. Biological Oceanography

University of North Carolina at Chapel Hill

B.A. Biology and History

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